

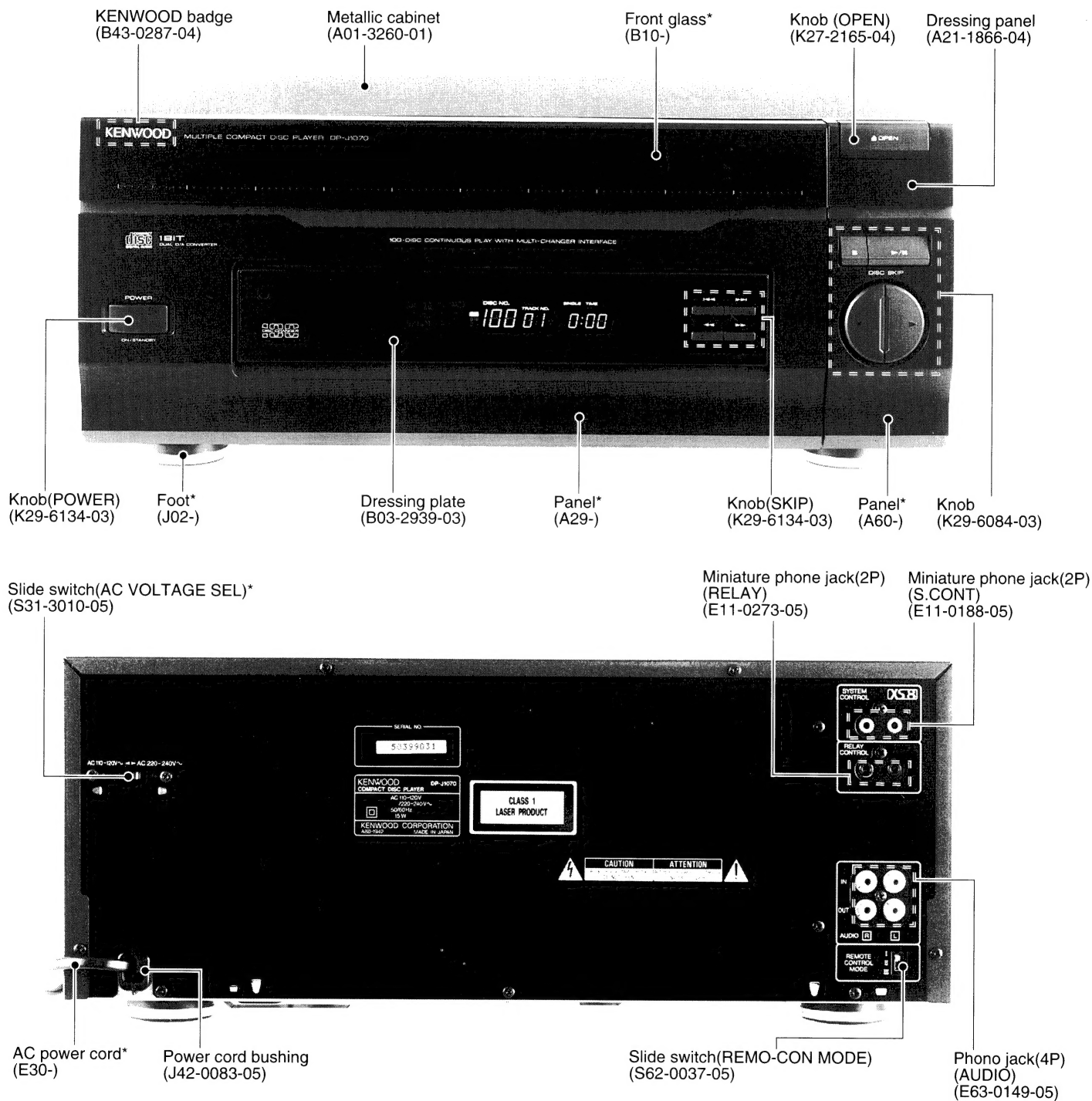
# DP-J695/J1070/J2070

## SERVICE MANUAL

# KENWOOD

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### DP-J695/J1070



In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

**DANGER : Laser radiation when open and interlock defeated.  
AVOID DIRECT EXPOSURE TO BEAM.**

Photo is DP-J1070.

\*Refer to parts list on page 39.

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# DP-J695/J1070/J2070

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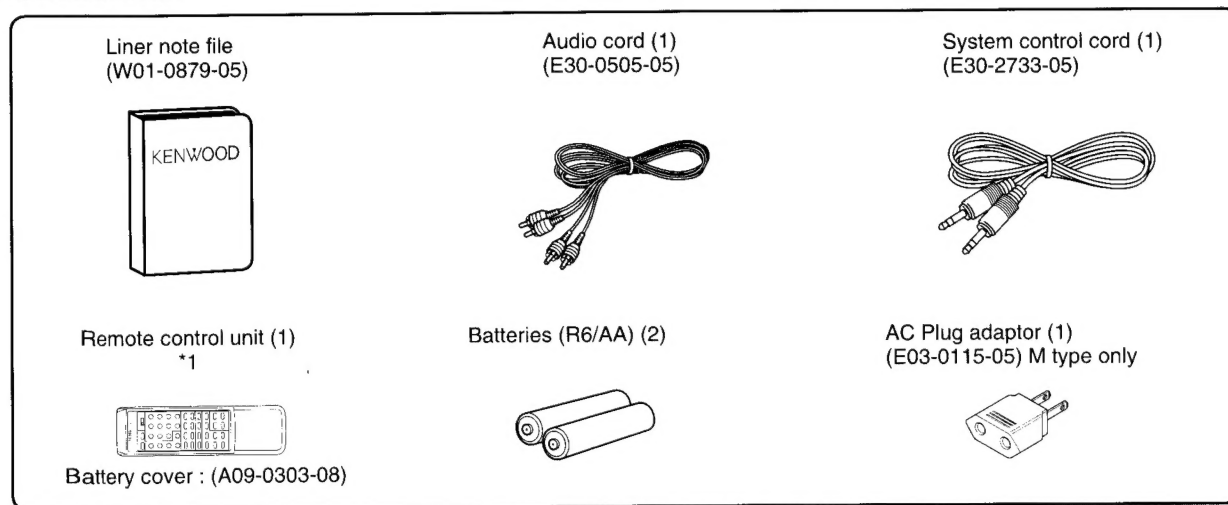
Refer to the following service manual, if detailed description about items in the table below is needed.

Ref No.	IC Name	Reference S/M	Page
IC1	CXA1782BQ	DP-ME9	9,10
IC2	CXD2500BQ	DP-MA5/MA9	17,18
IC7	CXD2512AQ	DP-R6070	7,8

\*1

RC-P0201	A70-1013-15	DP-J2070	KPYXTEG
RC-P0201	A70-1040-05	DP-J2070	M
RC-P0100	A70-1014-15	DP-J695/J1070	KRPYX
RC-P0100	A70-1041-05	DP-J695/J1070	M

### Accessories



### Removing the transport screws

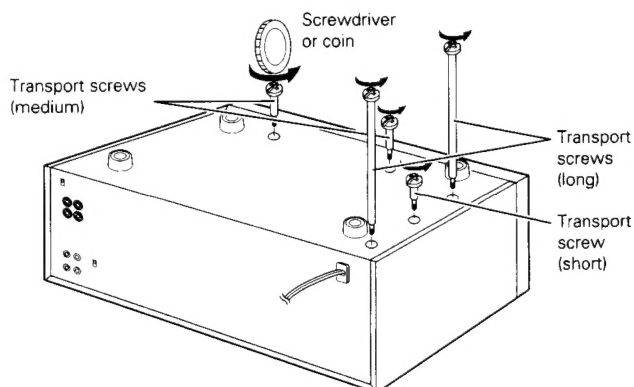
**Before using the unit, remove the 5 red transport screws (long x 2, medium x 2, short x 1) on the rear panel.**

The screws can be removed by rotating in the directions of the arrows. After removing, be sure to retain the screws in a plastic bag, etc. They will be required the next time the unit is transported.

Before transporting the unit again, remove all discs from the rack, switch the power OFF and attach screws to their respective transport fixing holes.



This unit incorporates precision mechanisms. Avoid applying shock to the unit after the transport screws have been removed. Shock may cause malfunction of the mechanisms.



### Beware of condensation

When water vapor comes into contact with the surface of cold material, water drops are produced.

If condensation occurs, correct operation may not be possible, or the unit may not function correctly.

This is not a malfunction, however, and the unit should be dried.

(To do this, turn the POWER switch ON and leave the unit as it is for several hours.)

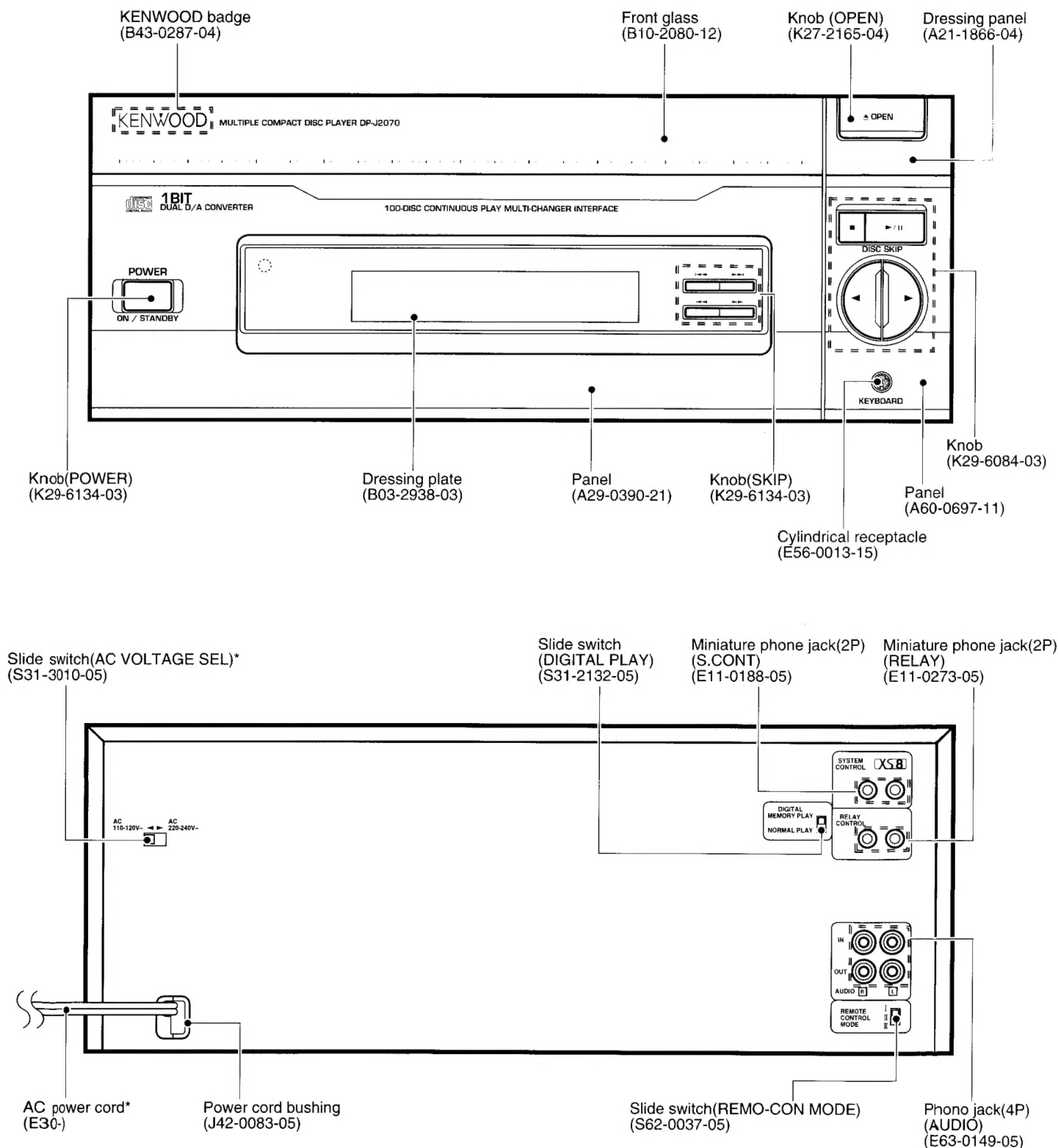
Be especially careful in the following conditions:

- When the unit is brought from a cold place to warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

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## EXTERNAL VIEW

### DP-J2070



### Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while power is ON or due to an external factor. In this case, execute the following method to reset the microcomputer and return it to normal condition.

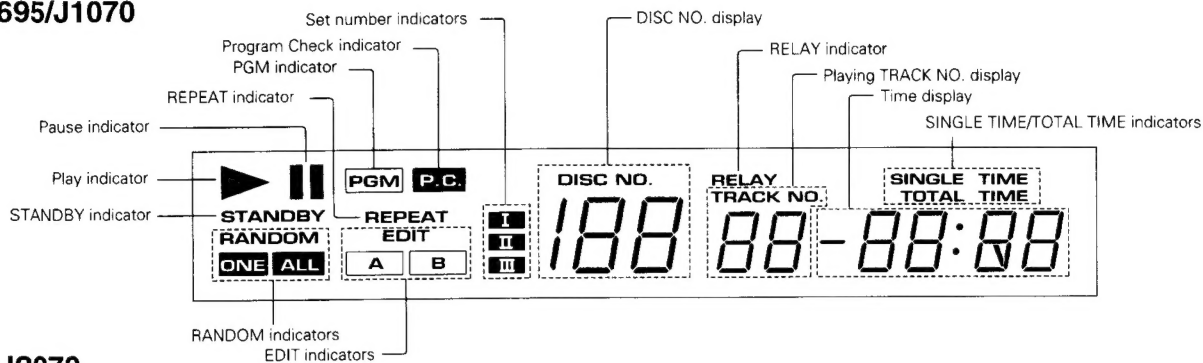
**Unplug the power cord from the power socket and, while holding the STOP key depressed, plug the power cord into the socket again.**

- Please note that restarting the microcomputer clears the contents stored in it and returns it to the condition when it left the factory.

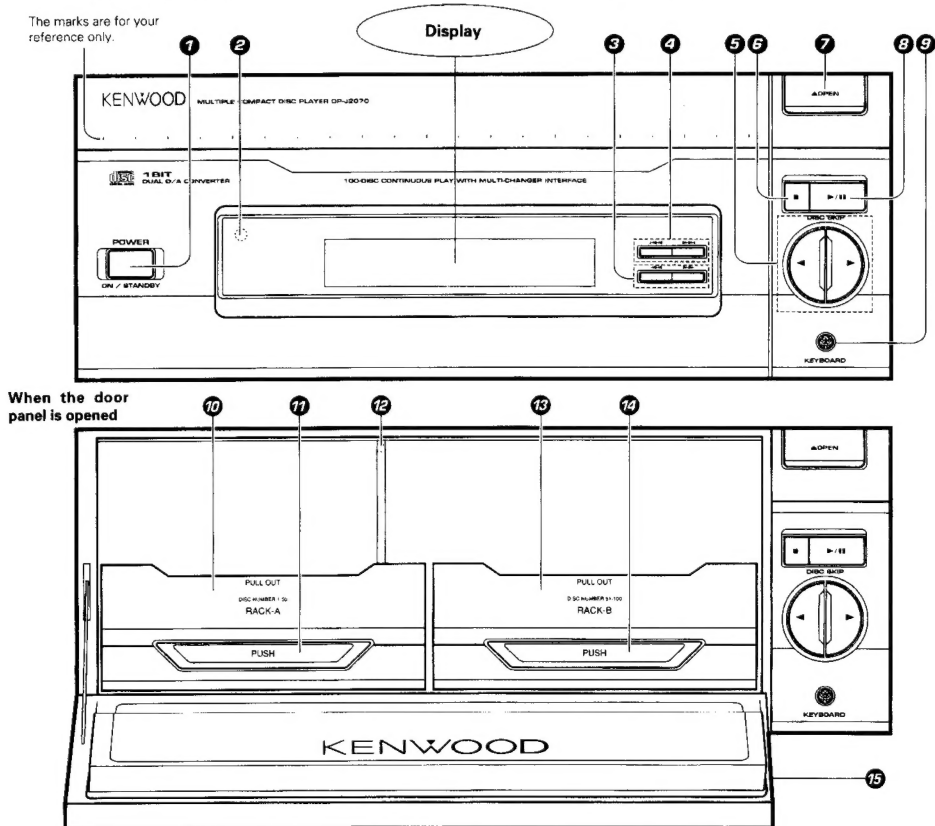
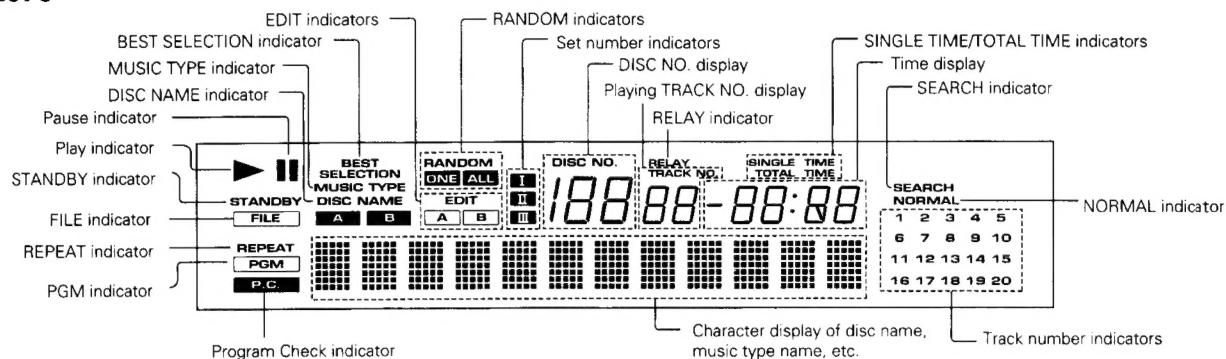
# DP-J695/J1070/J2070

## CONTROLS

### DP-695/J1070



### DP-J2070

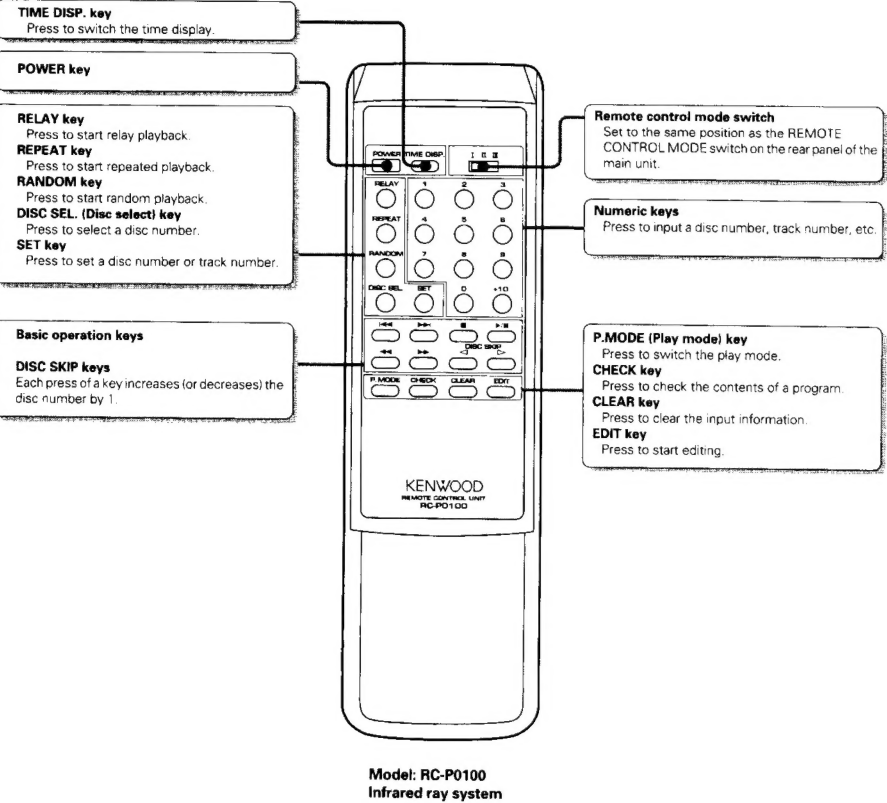


- ① **POWER key**
- ② **Remote sensor**
- ③ **Search keys (◀▶▶▶)**  
Press to move the played position of disc at high speed.
- ④ **Skip keys (▶▶▶▶▶▶)**  
Press to skip to the beginning of another track.
- ⑤ **DISC SKIP key**  
Press to select discs.
- ⑥ **Stop key (■)**
- ⑦ **OPEN (Δ) key**  
Press to open the door panel.
- ⑧ **Play/pause key (▶/||)**

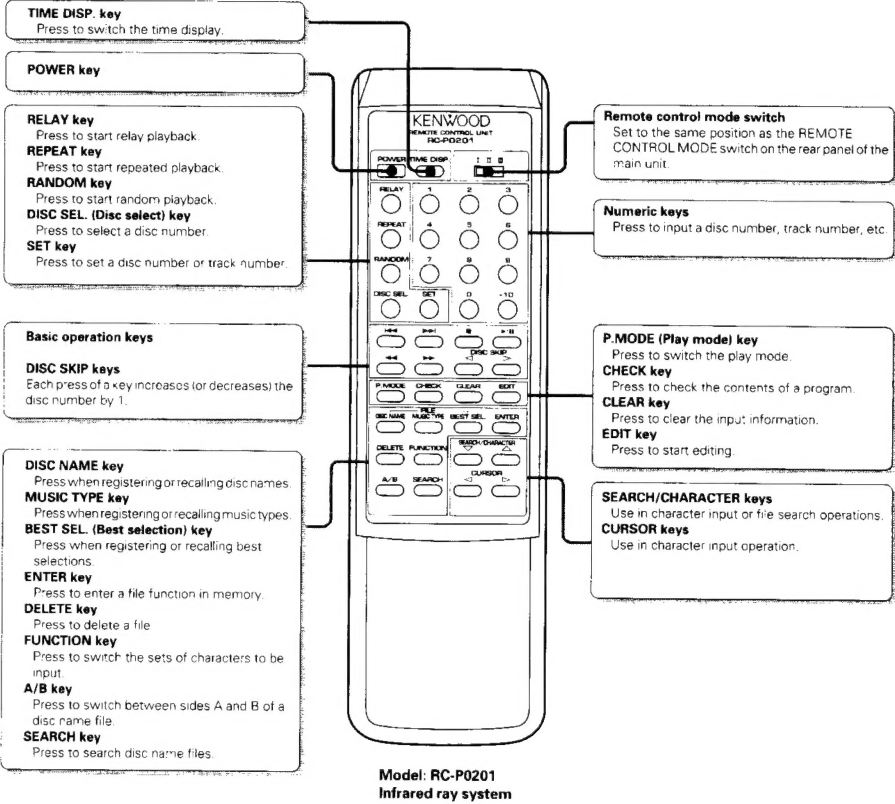
- ⑨ **KEYBOARD connector (DP-J2070 only)**  
For use in character input operation, an IBM-compatible PC keyboard can be connected here.
- ⑩ **Disc RACK A**
- ⑪ **Disc RACK A lock button**  
Push and hold to slide out disc rack A.
- ⑫ **Selected disc indicator**  
The LED corresponding to the current selected disc lights.
- ⑬ **Disc RACK B**
- ⑭ **Disc RACK B lock button**  
Push and hold to slide out disc rack B.
- ⑮ **Door panel**



DP-J695/J1070



DP-J2070



REMOTE CONTROL OPERATION

DP-J695/J1070/J2070

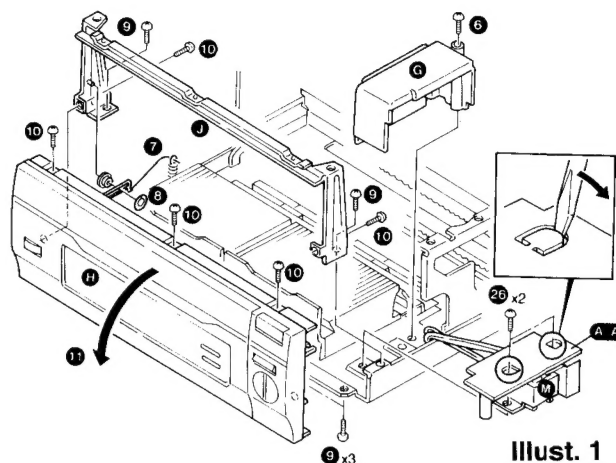
# DP-J695/J1070/J2070

## DISASSEMBLY FOR REPAIR

### 1. How to remove the Power transformer

#### Illust. 1

1. Remove the one screw (6) to remove the Insulating cover (G).
2. Open the two holes on the Transformer PCB (X32- F/9) (AA) by using a flatblade screwdriver, etc., as illustrated in the drawing.
3. Remove the two screws (26) to remove the Transformer (M) from the Main chassis.

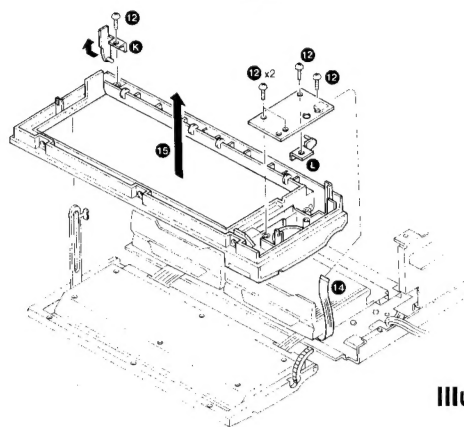


Illust. 1

### 2. How to remove the Front panel and the Display PCB (X32- C/9)

#### Illust. 1

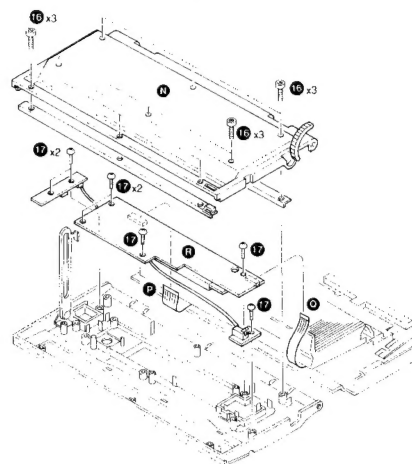
1. Remove the Spring (7) and the Flat washer (8).
2. Remove the five screws (9) to remove the Front panel ass'y (H).
3. Remove the five screws (10) to remove the Frame (J) from the Front panel.
4. Lay out the removed the Front panel as shown above (11). (Take care not to damage the Flat cable.)



Illust. 2

#### Illust. 2

5. Remove the five screws (12), the Pin L (K) and the Pin R (L).
6. Remove the Flat cable (9p) (14) to remove the Sub panel (15).



Illust. 3

#### Illust. 3

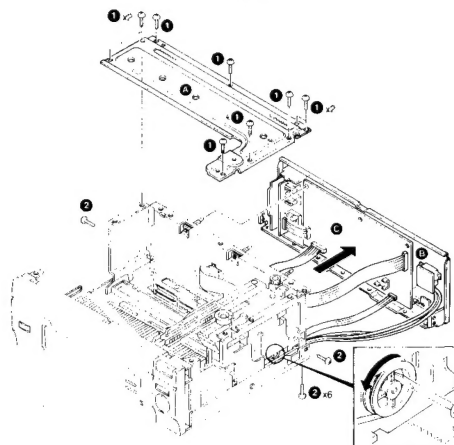
7. Remove the nine screws (16) to remove the Front cover (N).
8. Remove the seven screws (17) and the two Flat cables (21p) (P) / (9p)(Q) to remove the Display PCB (X32- C/9) (R).

### 3. How to remove the Mechanism ass'y

- \* Prior to the work, move the Mechanism ass'y to the far right position (Home position) by turning the Pulley (AB) in the direction of the arrow in the drawing.

#### Illust. 4

1. Remove the nine screws (1) to remove the Sub chassis (Top) (A).
2. Remove the eight screws (2) to remove the Rear panel (B) and CD Player unit (X32-205) (C).



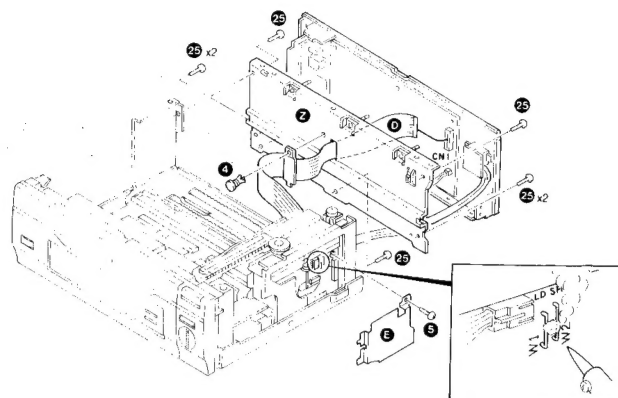
Illust. 4

# DP-J695/J1070/J2070

## DISASSEMBLY FOR REPAIR

### Illust. 5

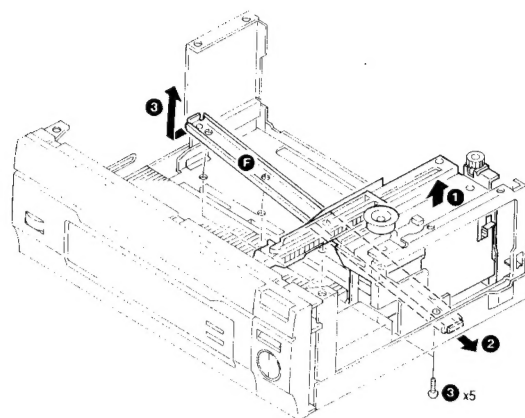
3. Remove the seven screws (25) to remove the Sub chassis (Rear) (Z).
4. Remove the one screw (5) to remove the Cover (E).
5. Short the W1 and W2 on the Mechanism PCB.
6. Remove the Push-revet (4) and the Flat cable (31p) (D) from CN1 on the CD Player unit (X32- A/9).



Illust. 5

### Illust. 6

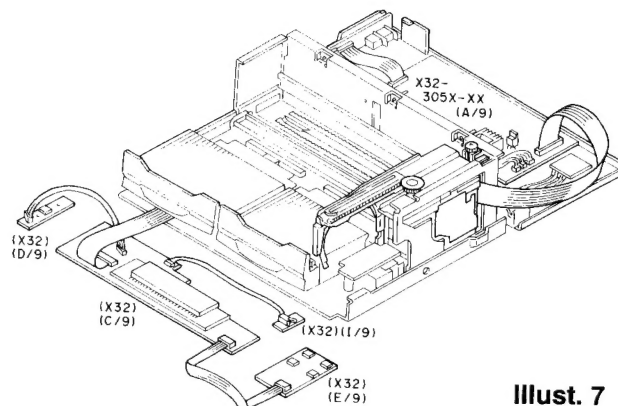
7. Remove the five screws (3).
  8. Raise the Mechanism ass'y in the direction (1) in the drawing together with the Rail (F).
  9. As moving the Rail (F) to the right side (direction (2)), raise it upward (direction (3)).
  10. Remove the Mechanism ass'y as pulling the Mechanism ass'y to the left side together with the Rail (F).
- \* It will be easier for you to work with it if you open the Door Panel and pull out the Stockers A and B in advance.



Illust. 6

### Illust. 7

11. Lay out the removed the Mechanism ass'y, Rear panel and X32- PCB as shown below. Apply power to check or repair.



Illust. 7

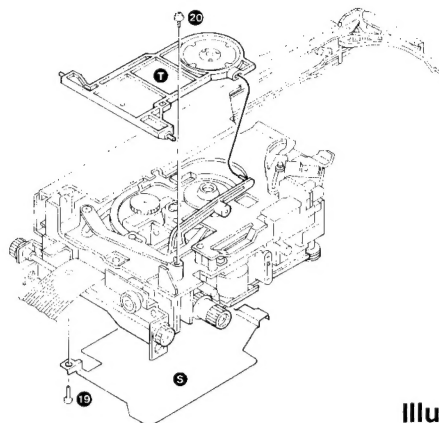
# DP-J695/J1070/J2070

## DISASSEMBLY FOR REPAIR

### 4. How to remove the Pickup

#### Illust. 8

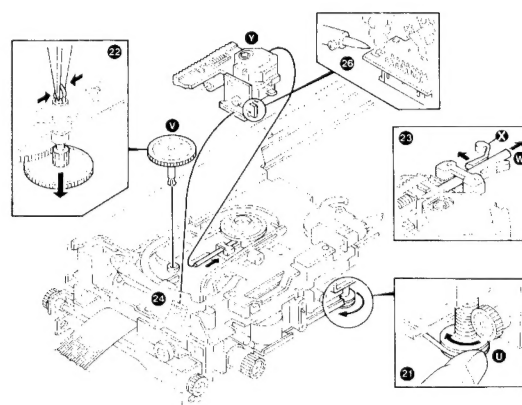
1. Remove the one screw (19) to remove the PCB Cover (S).
2. Remove the one screw (20) to remove the Sub chassis (Clamp) (T).



Illust. 8

#### Illust. 9

3. Turn the Pulley (U) in the direction of the arrow in the drawing so that the Pickup ass'y will reach the highest position.
4. While pushing the lock part of the Gear (V) with a tweezers, etc., remove the Gear (22).
5. Remove the Rod (W) and the Stopper (X), and pull the Rod until the Rod stops. (23)
6. Short the short-land on the Pickup PCB (26).
7. Remove the Flat cable (16P) (24) to remove the Pickup ass'y (Y).

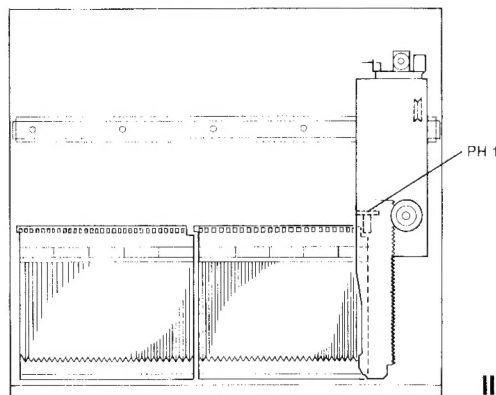


Illust. 9

### 5. How to adjust the Gear when the Mechanism is installed to the main unit

#### Illust. 10

1. The Mechanism ass'y can be installed only the position of the PH1 is 50-disc (center) or 100-disc (right side of the Stocker B).

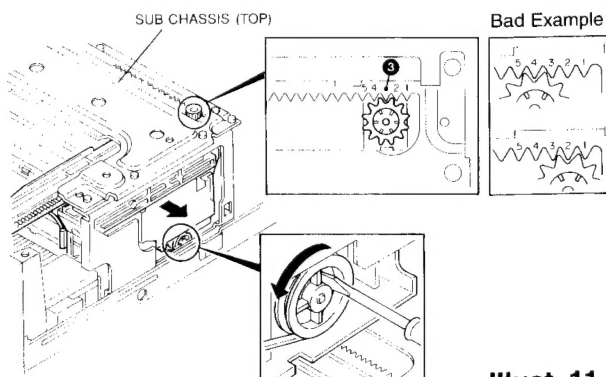


Illust. 10

#### Illust. 11

2. Turn the Pulley in the direction of the arrow in the drawing to the far-right position.
3. Attach the Sub chassis (Top) so that the third protrusion from the right end of the Sub chassis (Top) (#3 in the drawing) will be in mesh with the Gear as shown in the drawing. The position of the gear's rib is not relevant here.

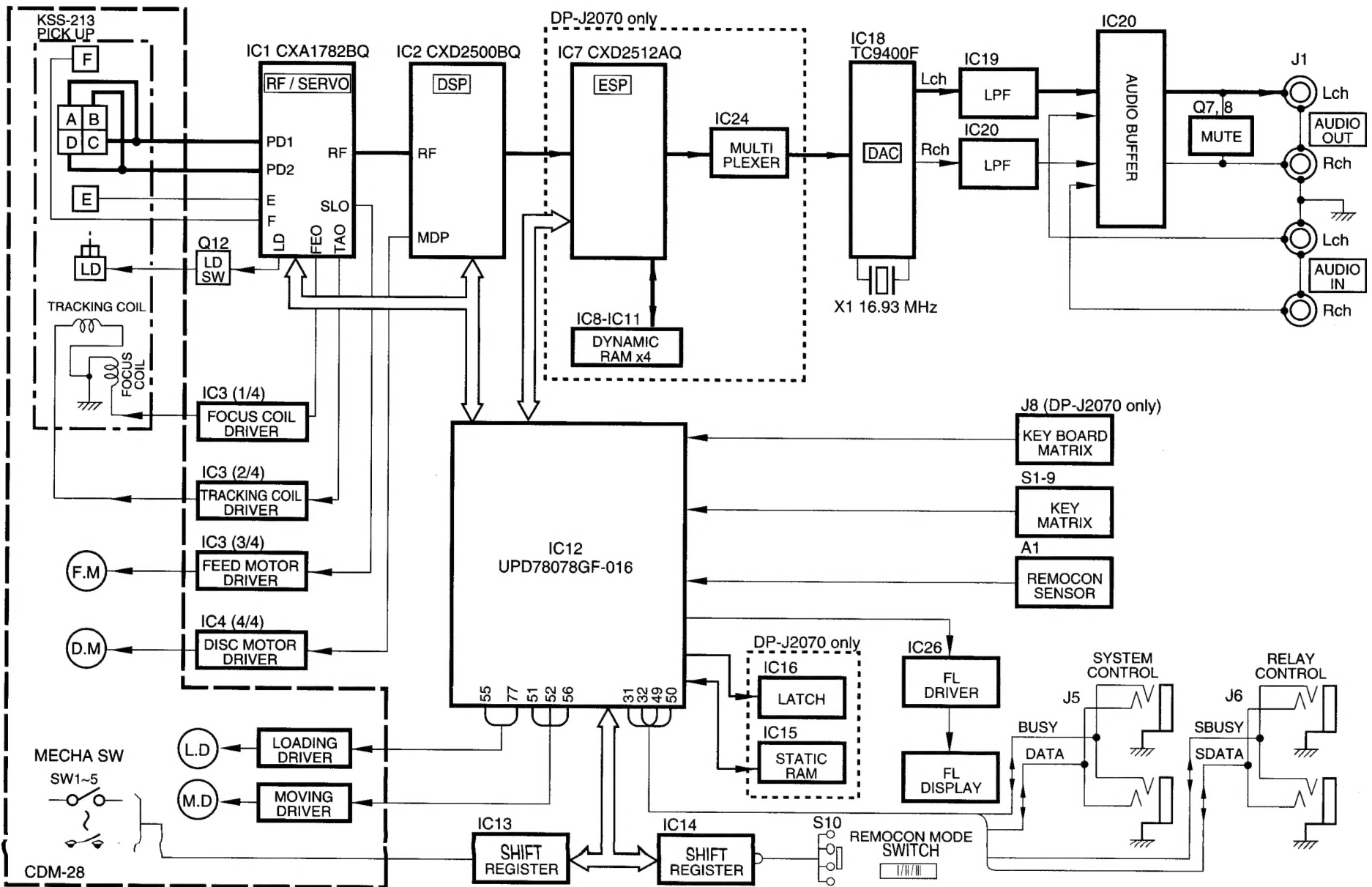
**Bad Example:** The mesh of the underlying gear will be dislocated.



Illust. 11

# DP-J695/J1070/J2070

## BLOCK DIAGRAM



# DP-J695/J1070/J2070

## CIRCUIT DESCRIPTION

### 1. Test mode

#### 1-1 MODE "01" : Adjustment

Step	Key name	Description	Display
1	FF key(▶▶)+AC	SET THE TEST MODE	-- 01
2	PLAY(▶)	DISC100 LOADING (1) Focus Servo.....ON (2) Tracking Servo.....ON (3) Feed Servo .....ON	1 0 0 05
3	DOWN(◀◀)	DISC100 LOADING (1) Focus Servo.....ON (2) Tracking Servo.....OFF (3) Feed Servo.....OFF	1 0 0 03
4	STOP(■)	STOP	-- 00
5	UP(▶▶)	Display goes on ↑ ↓ Display goes off	

※ "STEP 1: FF key+AC" means to press POWER key as you press the ▶▶ key.

※ At STEP 2 and STEP 3, set a disc to "DISC No. 100" in advance so that "DISC #100" will be loaded.

※ When STEP 3 is executed before STEP 2, the time will not be displayed at STEP 2, but this is not a malfunction.

#### 1-2 MODE "99": used to check actual operation

Step	Key name	Description	Display
1	STOP key(■)+AC	(1) All the file contents shall be cleared (2) Return MD to Home position	

※ If the MODE "99" is set, the TEST MODE will be automatically released.

#### 1-3 MODE "10": Mechanism Function Check #1: Continuous Disc Change

Step	Key name	Description	Display
1.	"→" Key+AC	Enter into the TEST MODE, and Change to DISC #75 after DISC #100 is loaded Change to DISC #51 after DISC #75 is loaded Change to DISC #50 after DISC #51 is loaded Change to DISC #25 after DISC #50 is loaded Change to DISC #1 after DISC #25 is loaded Return to Home position after DISC #1 is loaded	1 0 0 10 7 5 10 5 1 10 5 0 10 2 5 10 0 1 10

※ If the MODE "10" is set, the TEST MODE will be automatically released.

※ If there is no disc at the specified DISC NUMBER, it will be changed to the next DISC NUMBER.

※ If there is anything wrong with the mechanism, the MD will stop automatically.

#### 1-4 MODE "11": Mechanism Function Check #2: Continuous Disc Change

Step	Key name	Description	Display
1.	"→" Key+AC	Enter into the TEST MODE, and Change to DISC #25 after DISC #1 is loaded Change to DISC #50 after DISC #25 is loaded Change to DISC #51 after DISC #50 is loaded Change to DISC #75 after DISC #51 is loaded Change to DISC #100 after DISC #75 is loaded Return to Home position after DISC #100 is loaded	0 1 11 2 5 11 5 0 11 5 1 11 7 5 11 1 0 0 11

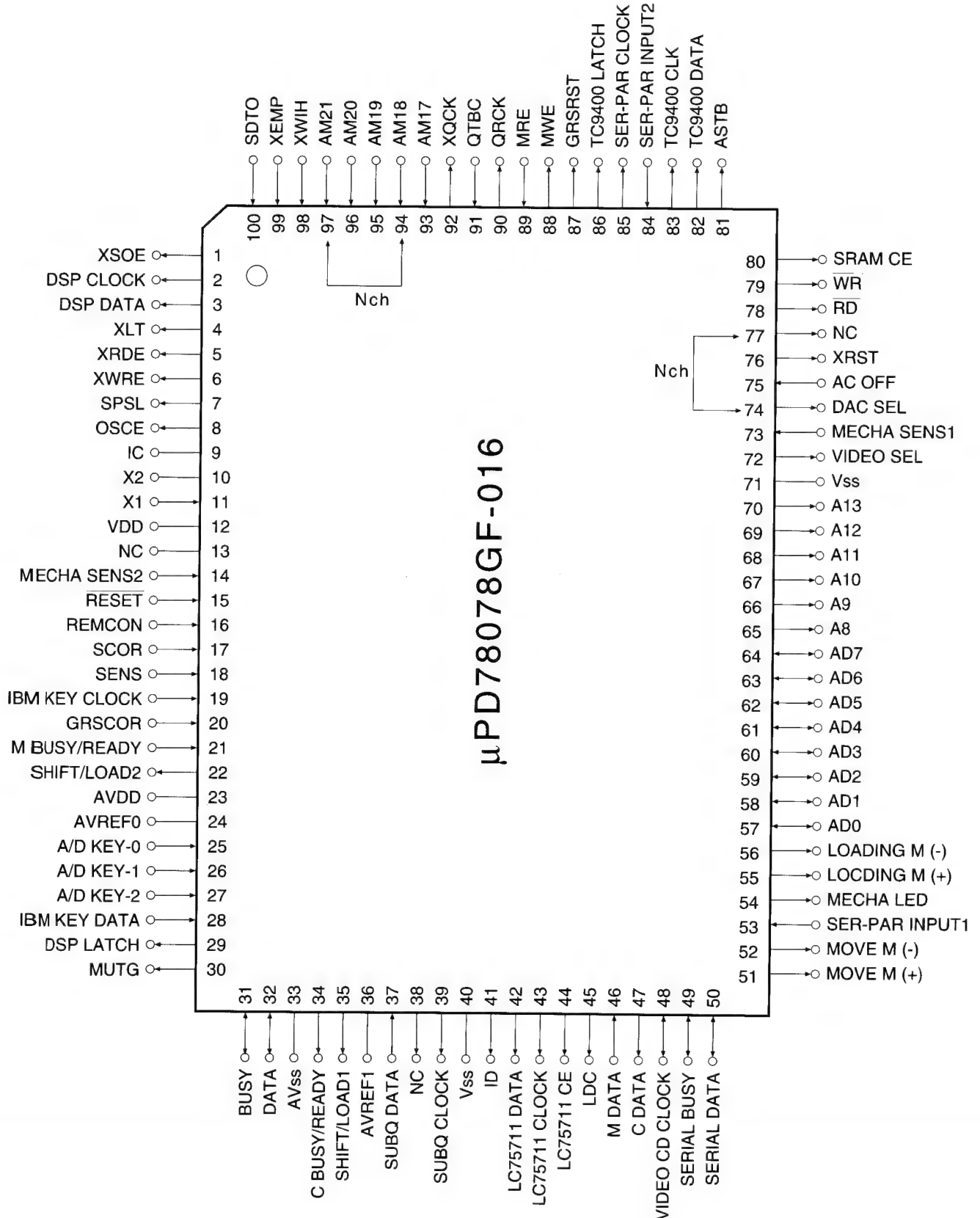
※ If the MODE "11" is set, the TEST MODE will be automatically released.

※ If there is anything wrong with the mechanism, the MD will stop automatically.

## CIRCUIT DESCRIPTION

2. Microprocessor :  $\mu$ PD78078GF-016 (X32-A/9,IC12)

2-1 Pin layout





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## CIRCUIT DESCRIPTION

### 2-2 Pin description

No.	Name	I/O	Description
1	XSOE	O	CXD2512AQ data transfer request
2	DSP CLOCK	O	CXD2500/CXD2512AQ CLOCK
3	DSP DATA	O	CXD2500/CXD2512AQ DATA
4	XLT	O	CXD2512AQ LATCH
5	XRDE	O	CXD2512AQ DRAM read enable signal
6	XWRE	O	CXD2512AQ DRAM write enable signal
7	SPSL	O	CXD2512AQ serial/parallel switch (L : parallel)
8	OSCE	O	CXD2512AQ crystal enable signal (H : enable)
9	IC	-	Connected to VSS
10	X2	-	Main system clock
11	X1	I	Main system clock
12	VDD	-	Power supply
13	NC	-	Not used
14	MECHA SENS2	I	Disc in/out detection
15	RESET	I	System reset
16	REMCON	I	Remote control signal input
17	SCOR	I	CXD2500 sub code synchro detection
18	SENS	I	CXA1372 SENSE signal input
19	IBM KEY CLOCK	I	IBM P/C keyboard clock input
20	GRSCOR	I	CXD2512AQ GRSCOR
21	M BUSY/READY	I	Not used
22	SHIFT/LOAD2	O	TC74HC165AF(IC14) LATCH
23	AVDD	-	A/D analog power supply (Connected to VDD)
24	AVREF0	-	A/D reference power supply (Connected to VDD)
25	A/D KEY-0	I	A/D key (CH0)
26	A/D KEY-1	I	A/D key (CH1)
27	A/D KEY-2	I	A/D key (CH2)
28	IBM KEY DATA	I	IBM P/C keyboard data input
29	DSP LATCH	O	CXD2500 LATCH
30	MUTG	O	CXD2500 digital mute (H : mute)
31	BUSY	I/O	Busy signal I/O
32	DATA	I/O	DATA signal I/O
33	AVss	-	A/D GND (Connected to Vss)
34	C BUSY/READY	O	Not used
35	SHIFT/LOAD1	O	TC74HG165AF(IC13) LATCH
36	AVREF1	-	D/A reference power supply (Connected to VDD)
37	SUBQ DATA	I	CXD2500 sub code read
38	NC	O	Not used
39	SUBQ CLOCK	O	CXD2500 sub code read clock
40	VSS	-	GND

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## CIRCUIT DESCRIPTION

No.	Name	I/O	Description
41	ID	I	Model detection (H : DP-J2070, L : DP-J695/J1070)
42	LC75711 DATA	O	LC75711E DATA
43	LC75711 CLOCK	O	LC75711E CLOCK
44	LC75711 CE	O	LC75711E CHIP ENABLE
45	LDC	O	Laser ON/OFF (active low)
46	M DATA	I	Not used
47	C DATA	O	Not used
48	VIDEO CD CLOCK	I/O	Not used
49	SERIAL BUSY	I/O	Serial BUSY signal I/O
50	SERIAL DATA	I/O	Serial DATA signal I/O
51	MOVE M (+)	O	Motor moving output
52	MOVE M (-)	O	Motor moving output
53	SER-PAR INPUT1	I	TC74HC165AF (IC13) DATA
54	MECHA LED	O	Mechanism LED on/off (H : ON, L : OFF)
55	LOADING M (+)	O	Motor moving output
56	LOADING M (-)	O	Motor moving output
57	AD0	I/O	SRAM I/F
58	AD1	I/O	SRAM I/F
59	AD2	I/O	SRAM I/F
60	AD3	I/O	SRAM I/F
61	AD4	I/O	SRAM I/F
62	AD5	I/O	SRAM I/F
63	AD6	I/O	SRAM I/F
64	AD7	I/O	SRAM I/F
65	A8	O	SRAM I/F
66	A9	O	SRAM I/F
67	A10	O	SRAM I/F
68	A11	O	SRAM I/F
69	A12	O	SRAM I/F
70	A13	O	SRAM I/F
71	VSS	-	GND
72	VIDEO SEL	O	Video-out switch
73	MECHA SENS1	I	Disc address count pulse
74	DAC SEL	O	DAC input signal (H : Video CD, L : CD)
75	AC OFF	I	AC OFF detection (L : detected)
76	XRST	O	CXD2512AQ reset
77	NC	O	Not used
78	RD	O	SRAM I/F
79	WR	O	SRAM I/F
80	SRAM CE	O	SRAM chip enable

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## CIRCUIT DESCRIPTION

No.	Name	I/O	Description
81	ASTB	O	SRAM I/F
82	TC9400 DATA	O	TC9400 DATA
83	TC9400 CLK	O	TC9400 CLOCK
84	SER-PAR INPUT2	I	TC74HC165AF(IC14) DATA
85	SER-PAR CLOCK	O	TC74HC165AF(IC13,14) CLOCK
86	TC9400 LATCH	O	TC9400 LATCH
87	GRSRST	O	CXD2512AQ GRSRST
88	MWE	O	CXD2512AQ time information writing enable signal
89	MRE	I	CXD2512AQ time information reading enable signal
90	QRCK	O	CXD2512AQ time information reading clock
91	QTBC	I	CXD2512AQ time information
92	XQOK	O	CXD2512AQ sub code OK output
93	AM17	I	CXD2512AQ address monitor 17
94	AM18	I	CXD2512AQ address monitor 18
95	AM19	I	CXD2512AQ address monitor 19
96	AM20	I	CXD2512AQ address monitor 20
97	AM21	I	CXD2512AQ address monitor 21
98	XWIH	I	CXD2512AQ DRAM writing prohibition signal
99	XEMP	I	CXD2512AQ DRAM reading prohibition signal
100	SDTO	I	CXD2512AQ serial data output

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## CIRCUIT DESCRIPTION

### 2-3 Expander I/O pin description

#### TC74HC165AF (X32-A/9,IC13)

No.	Name	Description
1	SHIFT/LOAD1	Latch input
2	SER-PAR CLOCK	Serial clock
3	ARM CLAMP	Mechanism arm clamp SW (active low)
4	ARM H.P	Mechanism arm home-position SW (active low)
5	NC	Not used
6	SLT SW	Start limit SW (active low)
7	NC	Not used
8	GND	GND
9	SER-PAR OUT	Serial data output
10	GND	GND
11	MD H.P SW	Mechanism home-position SW (active low)
12	STOC A	Mechanism stocker A SW (active low)
13	STOC B	Mechanism stocker B SW (active low)
14	DOOR SW	Door close SW (active low)
15	GND	GND
16	VCC	Power supply

#### TC74HC165AF (X32-A/9,IC14)

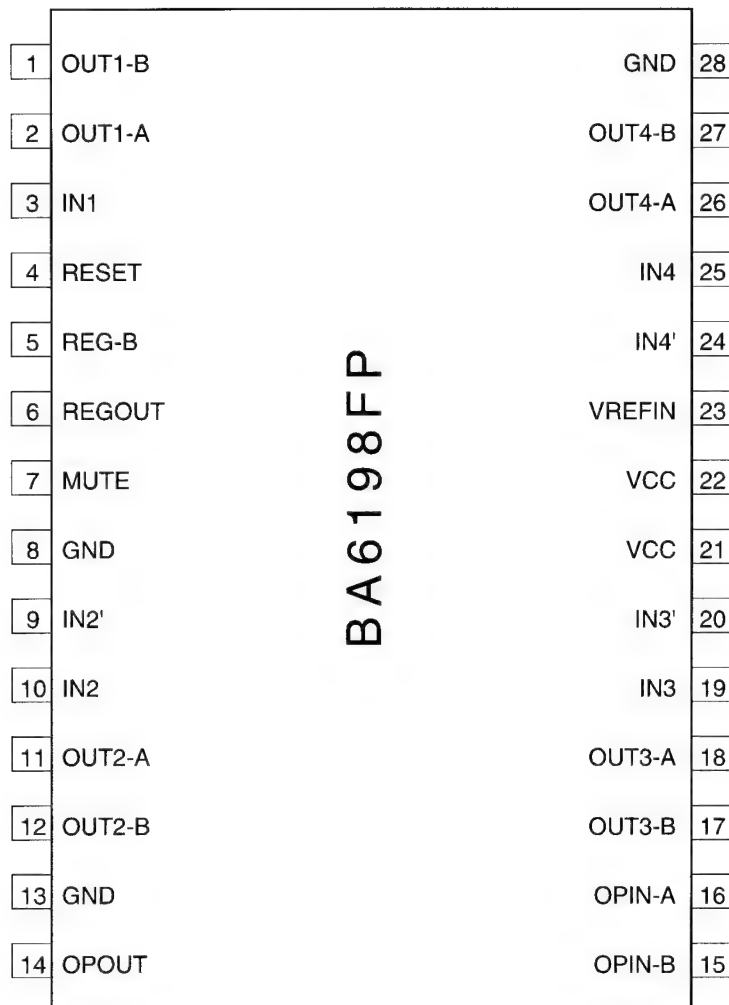
No.	Name	Description
1	SHIFT/LOAD2	Latch input
2	SER-PAR CLOCK	Serial clock
3	GFS	CXD2500 GFS
4	FOK	CXA1372 FOK
5	NORMAL ON	Normal/continuous SW (H : Normal)
6	NC	Not used (Connected to VSS)
7	NC	Not used
8	GND	GND
9	SER-PAR OUT	Serial data output
10	GND	GND
11	8/16 BIT	8/16 bit switch (H : 16 bit L : 8 bit)
12	VIDEO CD IN	Video CD adaptor in/out (H=Video CD ADP.IN)
13	SLIDE SW0	Remote control mode SW (No.1 = H /No.2 = H/No.3 = L)
14	SLIDE SW1	Remote control mode SW (No.1 = L /No.2 = H/No.3 = H)
15	GND	GND
16	VCC	Power supply

# DP-J695/J1070/J2070

## CIRCUIT DESCRIPTION

### 3. BTL Driver : BA6198FP (X32- A/9, IC3)

#### 3-1 Pin layout



#### 3-2 Pin description

No.	Name	Description	No.	Name	Description
1	OUT1-B	CH1 negative output terminal	15	OPIN-B	OP. amp. (-) input terminal
2	OUT1-A	CH1 positive output terminal	16	OPIN-A	OP. amp. (+) input terminal
3	IN1	CH1 gain-adjustment input terminal	17	OUT3-B	CH3 negative output terminal
4	RESET	Reset output terminal	18	OUT3-A	CH3 positive output terminal
5	REG-B	External regulator Tr. base connecting terminal	19	IN3	CH3 input terminal
6	REGOUT	External regulator Tr. collector connecting terminal (output)	20	IN3'	CH3 gain-adjustment input terminal
7	MUTE	Mute control terminal	21	VCC	VCC
8	GND	GND terminal	22	VCC	VCC
9	IN2'	CH2 gain-adjustment input terminal	23	VREFIN	Reference amp. input terminal (bias)
10	IN2	CH2 input terminal	24	IN4'	CH4 gain-adjustment input terminal
11	OUT2-A	CH2 positive output terminal	25	IN4	CH4 input terminal
12	OUT2-B	CH2 negative output terminal	26	OUT4-A	CH4 positive output terminal
13	GND	Sub straight GND	27	OUT4-B	CH4 negative output terminal
14	OPOUT	OP. amp. output	28	GND	Sub straight GND

Note: The positive output and the negative output mean the polarity for the input.

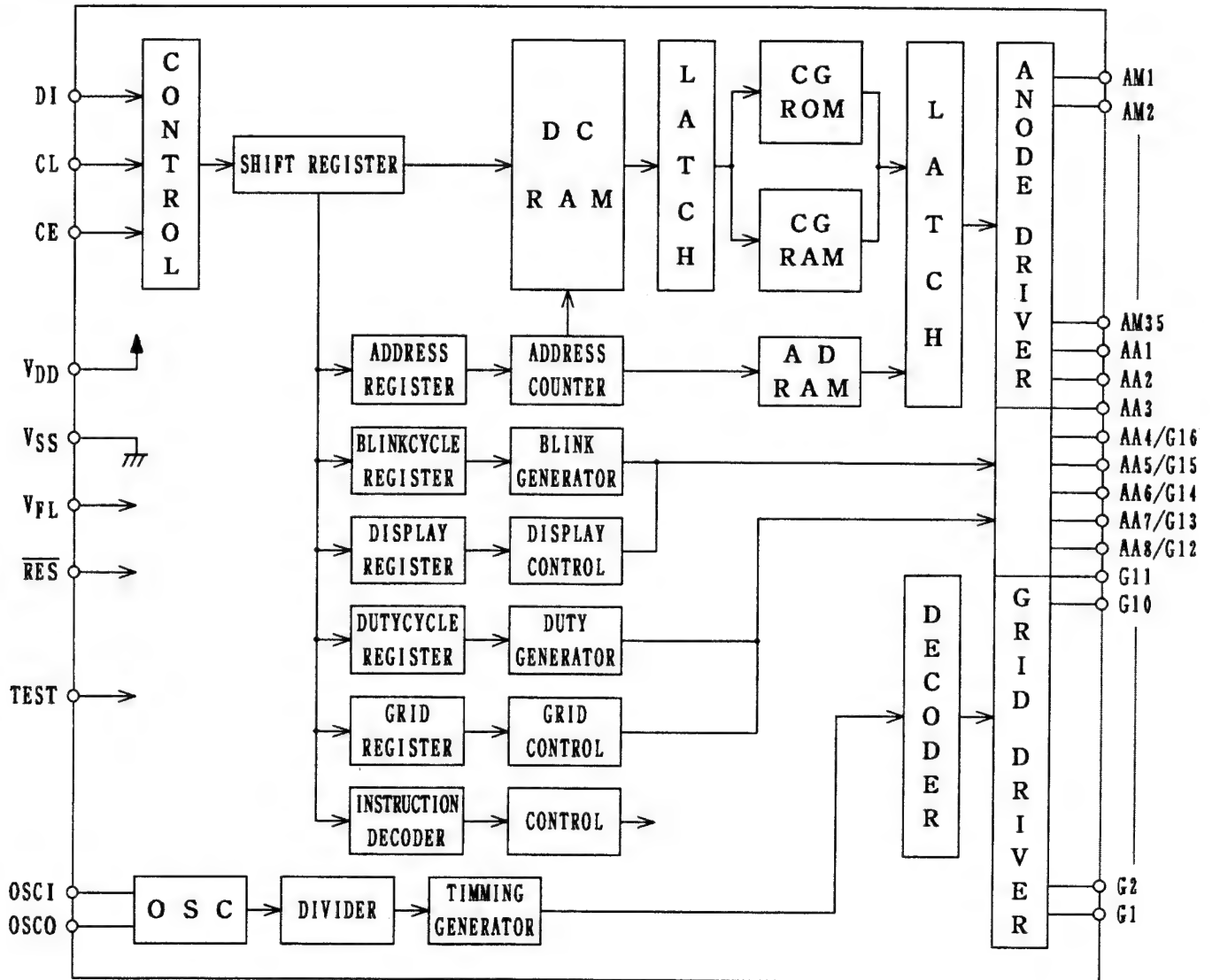
(Input "H" → positive output : "H", negative output : "L")

# DP-J695/J1070/J2070

## CIRCUIT DESCRIPTION

### 4. FL Controller : LC75711E(X32- C/9,IC26)


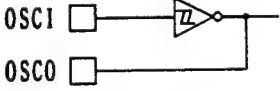
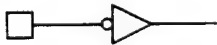
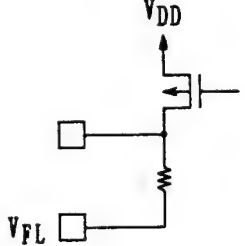

#### 4.1 Block diagram



# DP-J695/J1070/J2070

## CIRCUIT DESCRIPTION

### 4-2 Pin description

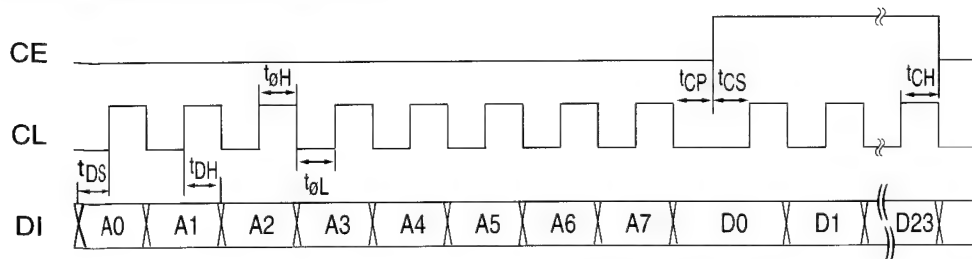
Name	Q'ty	Terminal type	Description
VDD	1		Logic part power terminal, +5 V type.
VSS	1		Logic part power terminal, GND
VFL	1		Driver part power terminal
DI	1		Serial data transfer terminal
CL	1		DI: Transfer data
CE	1		CL: Synchronous clock CE: Chip enable
OSCI	1		External oscllator connecting termmal : C and R
OSCO	1		
RES	1		System reset input terminal
AM1-AM35 AA1-AA3	38		Anode output terminal; A pulldown resistor incorporated
AA4/G16 AAS/G15 AA6/G14 AA7/G13 AA8/G12	5		Anode/grid output terminal If the 12th to 16th digits are selected as a displayed digit by the "displayed digit specify" command, these terminals will be grid output terminals. A pulldown resistor incorporated
G1~G11	11		Grid output terminal A pulldown resistor incorporated
TEST	1		LSI test terminal Be sure to use it as it is connected to vss.

### 4-3 Data input

The control serial data consists of 8 bits of address and 24 bits of instruction code. The address is used For chip select when it is connected to the common bus line, which has the following codes:

Address							
A0	A1	A2	A3	A4	A5	A6	A7
1	1	1	0	0	1	1	0

### 4-4 Timing of DI, CL, and CE



The data will be incorporated at the rising of CL and will be latched at the falling of CE. If the instruction is to be sent from the microprocessor, it is necessary to set an interval between an instruction and the following instruction to be sufficiently longer than the time required to execute the former instruction.



# DP-J695/J1070/J2070

## CIRCUIT DESCRIPTION

4-5 Character table

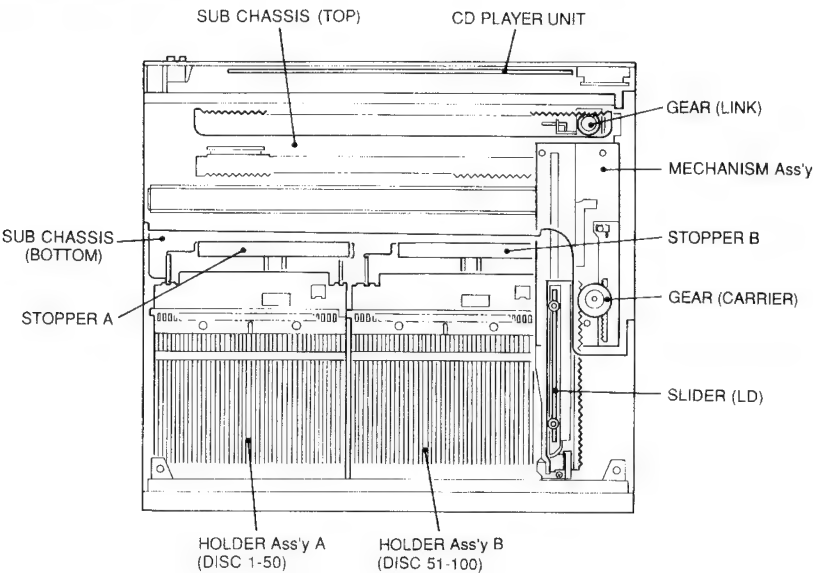
上位4 下位 4BIT	MSB 0000	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011
0000 LSB	CG RAM(1)		0	@	P		p	á	â	ã	Ö
0001	(2)	!	1	A	Q	a	q	à	ä	α	Φ
0010	(3)	"	2	B	R	b	r	é	ê	Ö	ã
0011	(4)	#	3	C	S	c	s	è	ë	Å	â
0100	(5)	☒	4	D	T	d	t	í	î	Ǧ	+ —
0101	(6)	%	5	E	U	e	u	ì	ï	ě	İ
0110	(7)	&	6	F	V	f	v	ó	ô	ň	ń
0111	(8)	'	7	G	W	g	w	ò	ö	Æ	æ
1000	(	8	H	X	h	x	ú	û	π	μ	
1001	)	9	I	Y	i	y	ù	ü	Œ	ı	
1010	*	:	J	Z	j	z	ñ	ñ	£	÷	
1011	+	;	K	[	k	{	Ç	ç	\$	œ	
1100	,	<	L	\	l	l	Ş	ş	←	ø	
1101	-	=	M	]	m	}	ß	ğ	↑	Ω	
1110	.	>	N	^	n	-	ı	ı	→	Σ	
1111	/	?	O	_	o	■	IJ	Ä	↓	\$	

# DP-J695/J1070/J2070

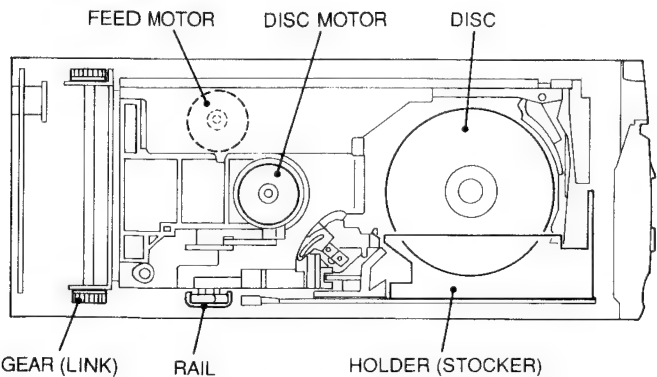
## MECHANISM OPERATION DESCRIPTION

### 1. Description of the key parts

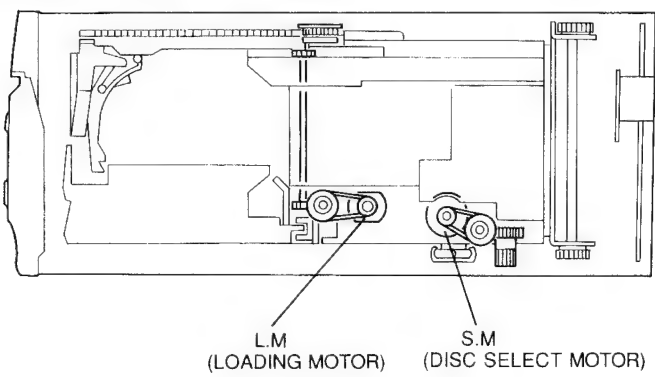
#### 1-1. Top view



#### 1-2. Left side view

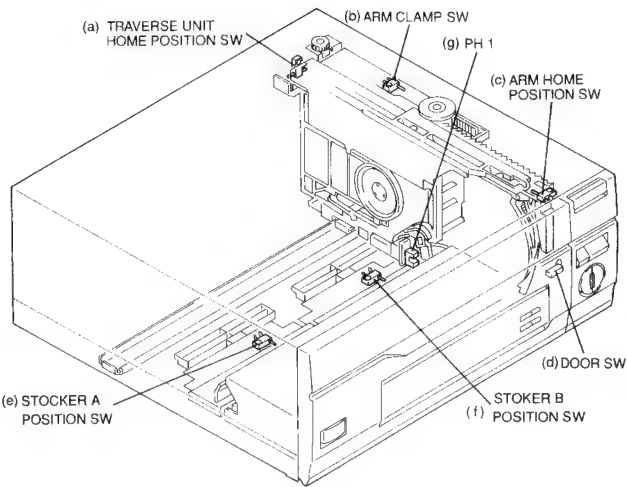


#### 1-3. Right side view



### 2. Mechanism switch

- (a) Traverse unit Home position SW  
.....Traverse unit Home position : SW ON
- (b) Arm Clamp SW .....Clamp ON : SW ON
- (c) Arm Home position SW  
.....Arm Home position : SW ON
- (d) Door SW .....Door close : SW ON
- (e) Stocker A position SW .....Stocker A in : SW ON
- (f) Stocker B position SW .....Stocker B in : SW ON
- (g) PH1 .....Disc position detection



# DP-J695/J1070/J2070

## MECHANISM OPERATION DESCRIPTION

### 3. Operation of the Arm

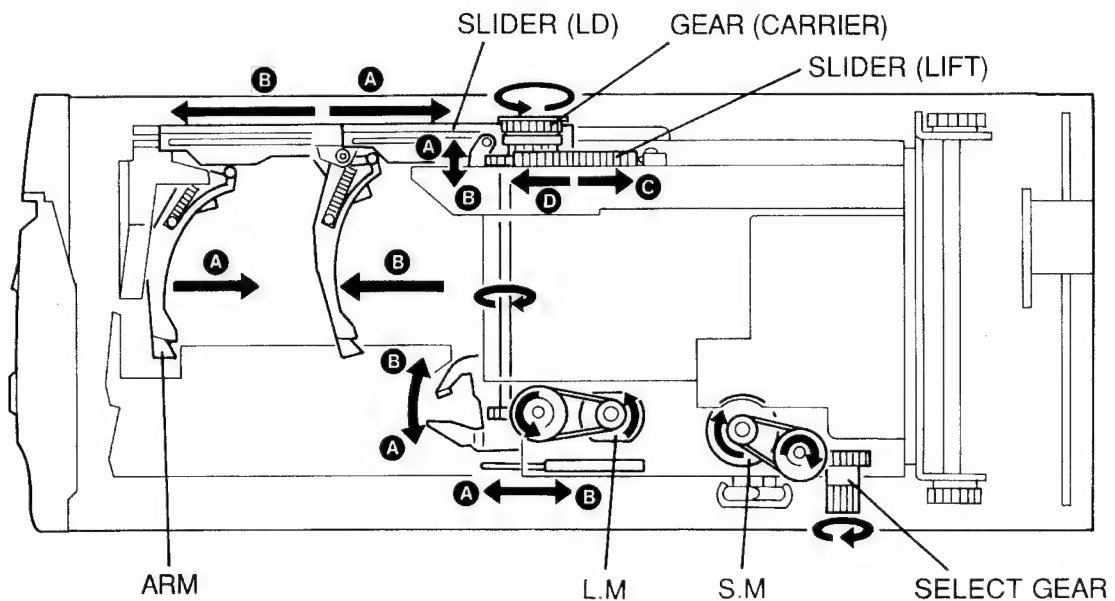
1. If the Loading Motor (LM) rotates in the direction of the arrow in the drawing, the Shaft will rotate, and the Carrier Gear will rotate in the direction of the arrow in the drawing.
2. If the Carrier Gear rotates in the direction of the arrow, the Slider (LD) will be withdrawn in the direction of (A), and the Arm will move in the direction of (A).

### 4. Traverse unit (MD part) Up / Down

1. If the Slider (LD) is completely withdrawn in the direction of (A) and the LM keeps rotating in the same direction, the Slider (Lift) will be withdrawn in the direction of (C).
2. If the Slider (Lift) is withdrawn in the direction of (C), the Traverse unit will go up.
3. If the LM rotates in the reverse direction as shown in the drawing, the Traverse unit will go down.

### 5. Disc select operation

1. If the Disc select Motor (SM) rotates in the direction of the arrow in the drawing, the Select Gear will rotate in the direction of the arrow in the drawing.
2. If the Select Gear rotates in the direction of the arrow in the drawing, the Mechanism ass'y will move to the left (to the side of Disc No. 1).
3. The PH1 (Photo Detector) will count the Disc Number.



\* The arrows (A) and (B) in the drawing means the following :

- (a) If the LM rotates in the direction as shown in the drawing, it means the motion in the direction of the arrow (A); and
- (b) If the LM rotates in the reverse direction as shown in the drawing, it means the motion in the the direction of the arrow (B).

# DP-J695/J1070/J2070

## ADJUSTMENT

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
1. With pressing the FF key(▶▶), turn the power on to enter the test mode. 2. Set the Test disc to Disc NO. 100.							
1	FOCUS ERROR	Test disc Type 4	Connect an oscilloscope as follows. CH1:RF (CN2-1) CH2:FE (CN2-2)	Press the PLAY key . Confirm that the display is "05".	FE BALANCE VR3	Optimum eye pattern	(b) or (d)
2	TRACKING ERROR	Test disc Type 4	Connect an oscilloscope as follows. CH1:RF (CN2-1) CH2:TE (CN2-6)	Press the DOWN key (◀◀). Confirm that the display is "03".	TE BALANCE VR4	Symmetry between upper and lower	(c)
3	FOCUS GAIN	Test disc Type 4 Apply signal of 1.0 kHz, 0.05Vrms to CN2 pin 2-3.	Connect a LPF to CN2 pin 2-3 to which connect an oscilloscope or AC voltmeters.	Press the PLAY key . Confirm that the display is "05".	FOCUS GAIN VR1	Two VTVMs should read the same value.	(e)
4	TRACKING GAIN	Test disc Type 4 Apply signal of 1.0 kHz, 0.05Vrms to CN2 pin 5-6.	Connect a LPF to CN2 pin 5-6 to which connect an oscilloscope or AC voltmeters.	Press the PLAY key . Confirm that the display is "05".	TRACKING GAIN VR2	Two VTVMs should read the same value.	(e)

Note:

Type 4 disc :SONY YEDS-18 Test Disc or equivalent.

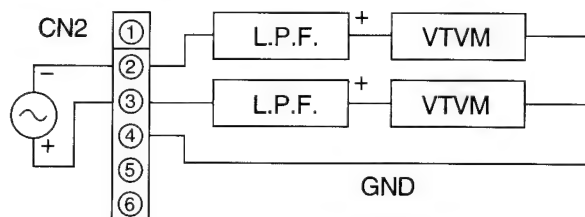
LPF : Around 47kΩ + 390 pF or so.

Step 1 ~ 4 are in Test Mode.

### (e) Focus Gain, Tracking Gain

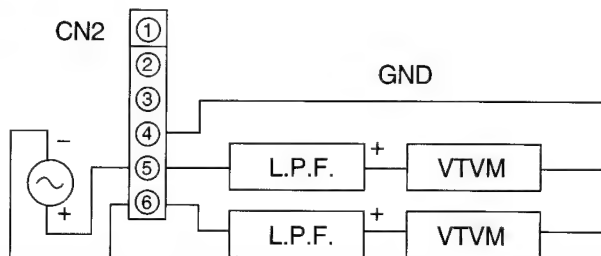
Focus gain

1.0 kHz  
0.05Vrms



Tracking gain

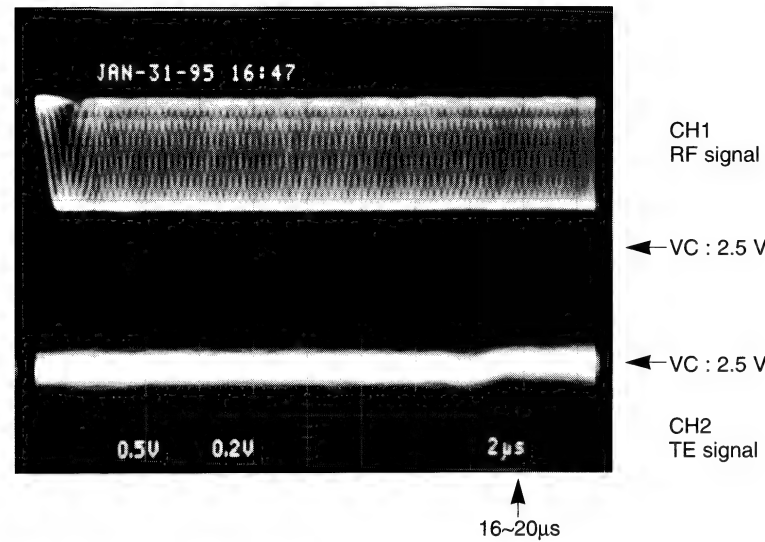
1.0 kHz  
0.05Vrms



# DP-J695/J1070/J2070

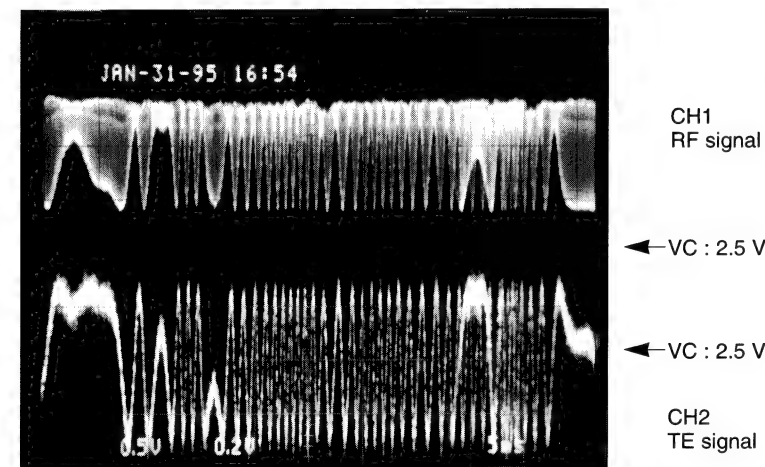
## ADJUSTMENT

FIG. (b)



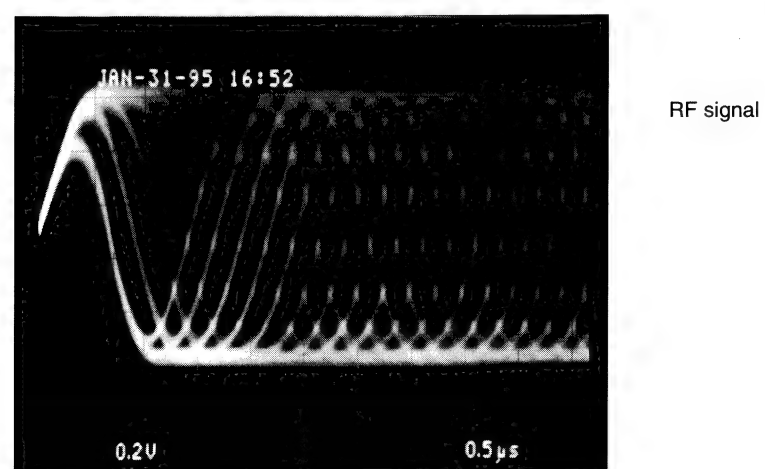
- RF signal and TE signal in test mode (PLAY).
- If the diffraction grating has been adjusted correctly, the influence of triggering is observed on the TE waveform of approx. 16~20μs from RF signal trigger point, in the form of a projection.

FIG. (c)



- RF signal and TE signal in test mode (Focusing servo ON / Tracking servo OFF). (Disc Type 4)
- Adjust TE signal so that the waveform is symmetrical in relation to VC. (TE BALANCE)

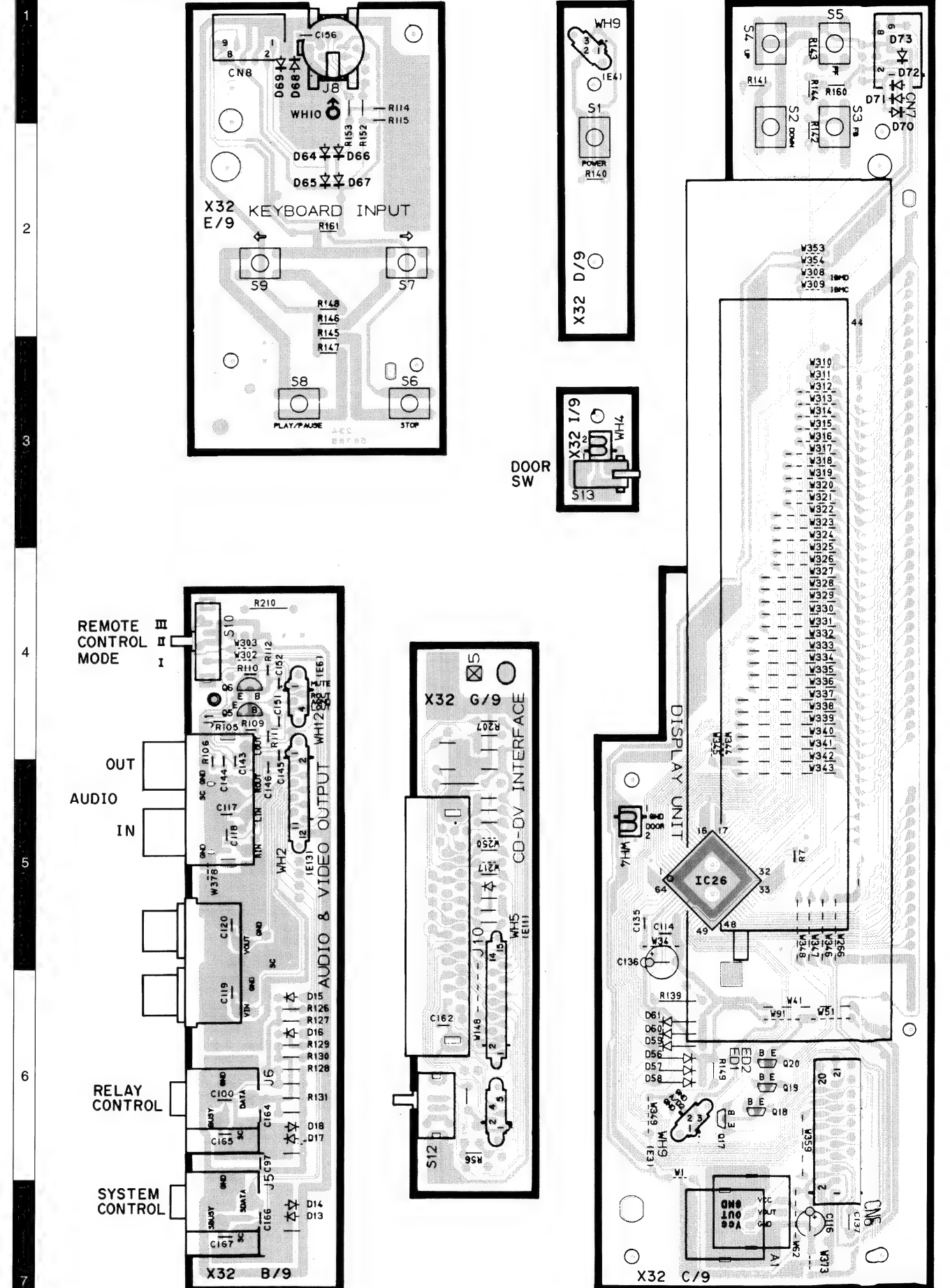
FIG. (d)



- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset are focused into one point on the display. The crossing points above and below the center shall also be looked clearly. (FE BALANCE)

## PC BOARD (COMPONENT SIDE VIEW)

CD player unit (X32-3050-XX)



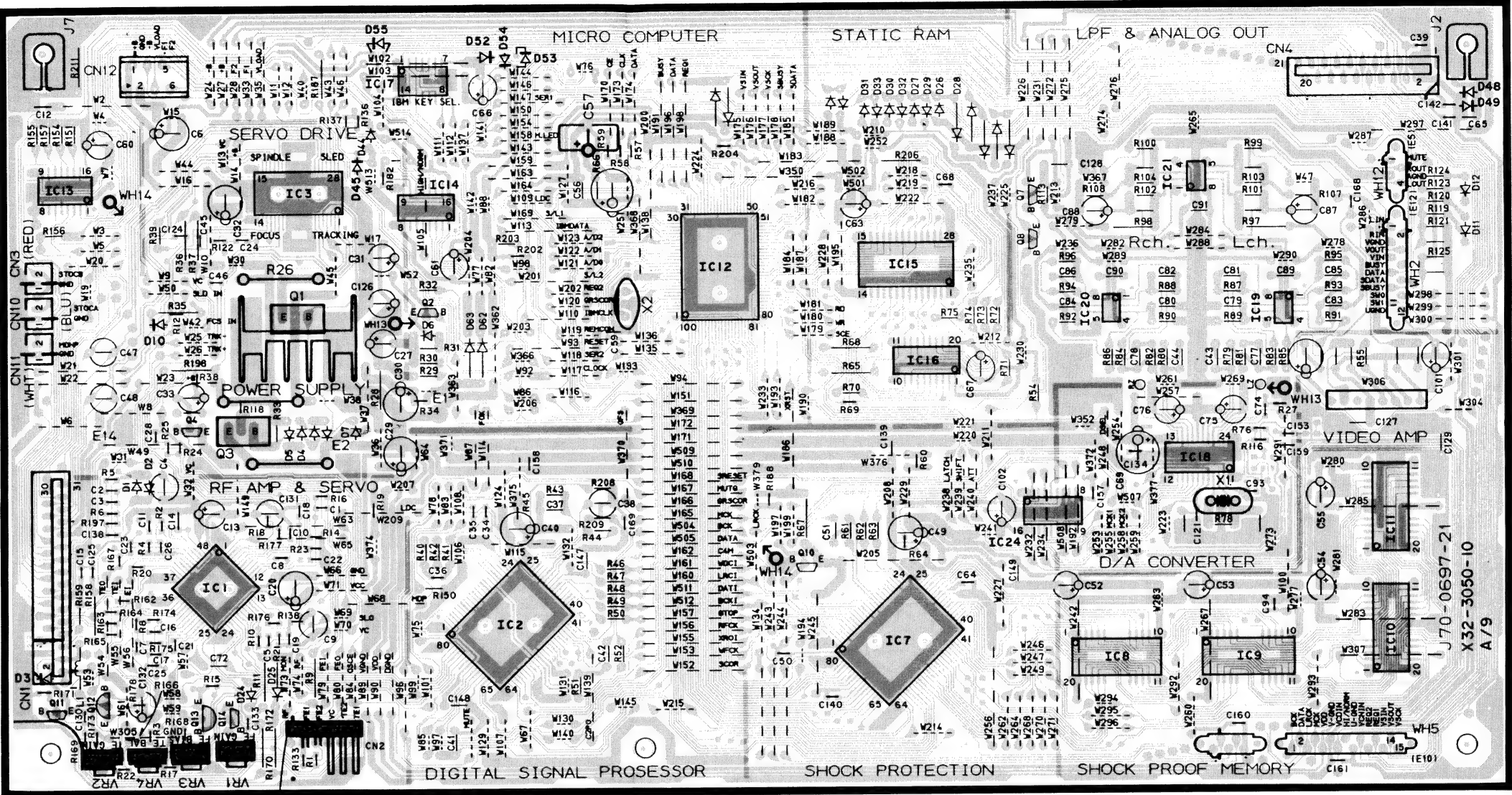
Refer to the schematic diagram for the value of resistors and capacitors.



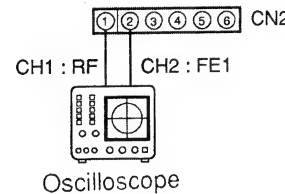
PC BOARD (COMPONENT SIDE VIEW)

- CD player unit(X32-3050-XX)  
10 : DP-J2070 K,P,X,T,E,G  
21 : DP-J2070 Y,M  
11 : DP-J695/J1070 K,R,P,X  
22 : DP-J695/J1070 Y,M

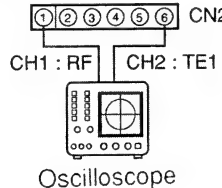
MECHANISM(X92-2050-10)



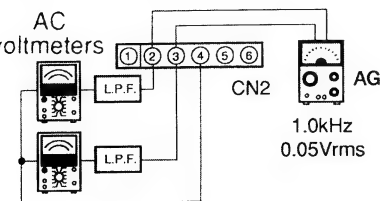
Focus error : Optimum eye pattern



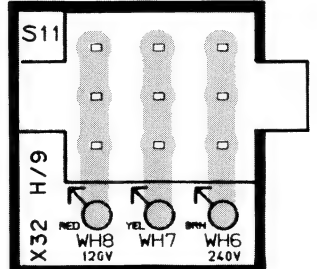
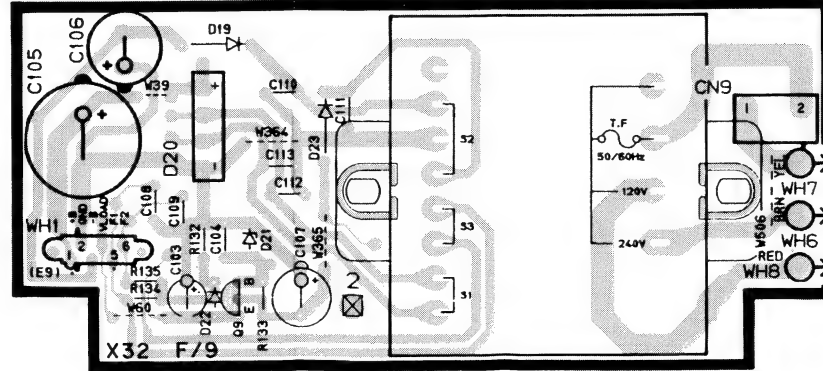
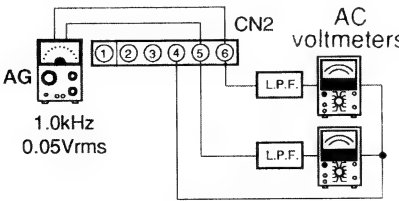
Tracking error : Symmetry between upper and lower



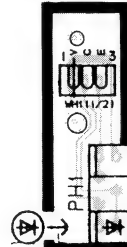
Focus gain : Two VTVMs should read the same value.



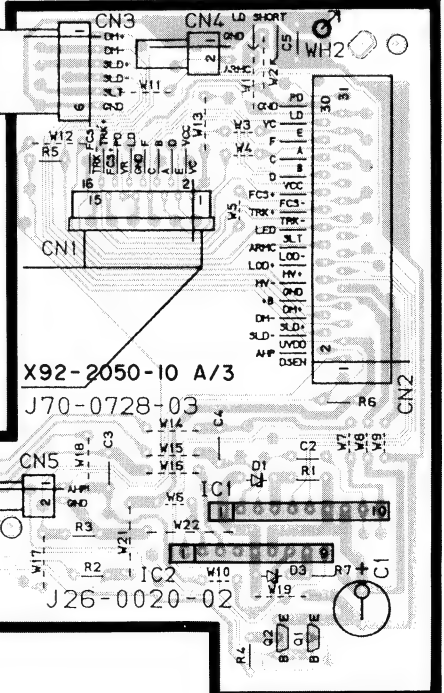
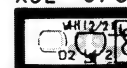
Tracking gain : Two VTVMs should read the same value.



X92 B/3



X92 C/3



2

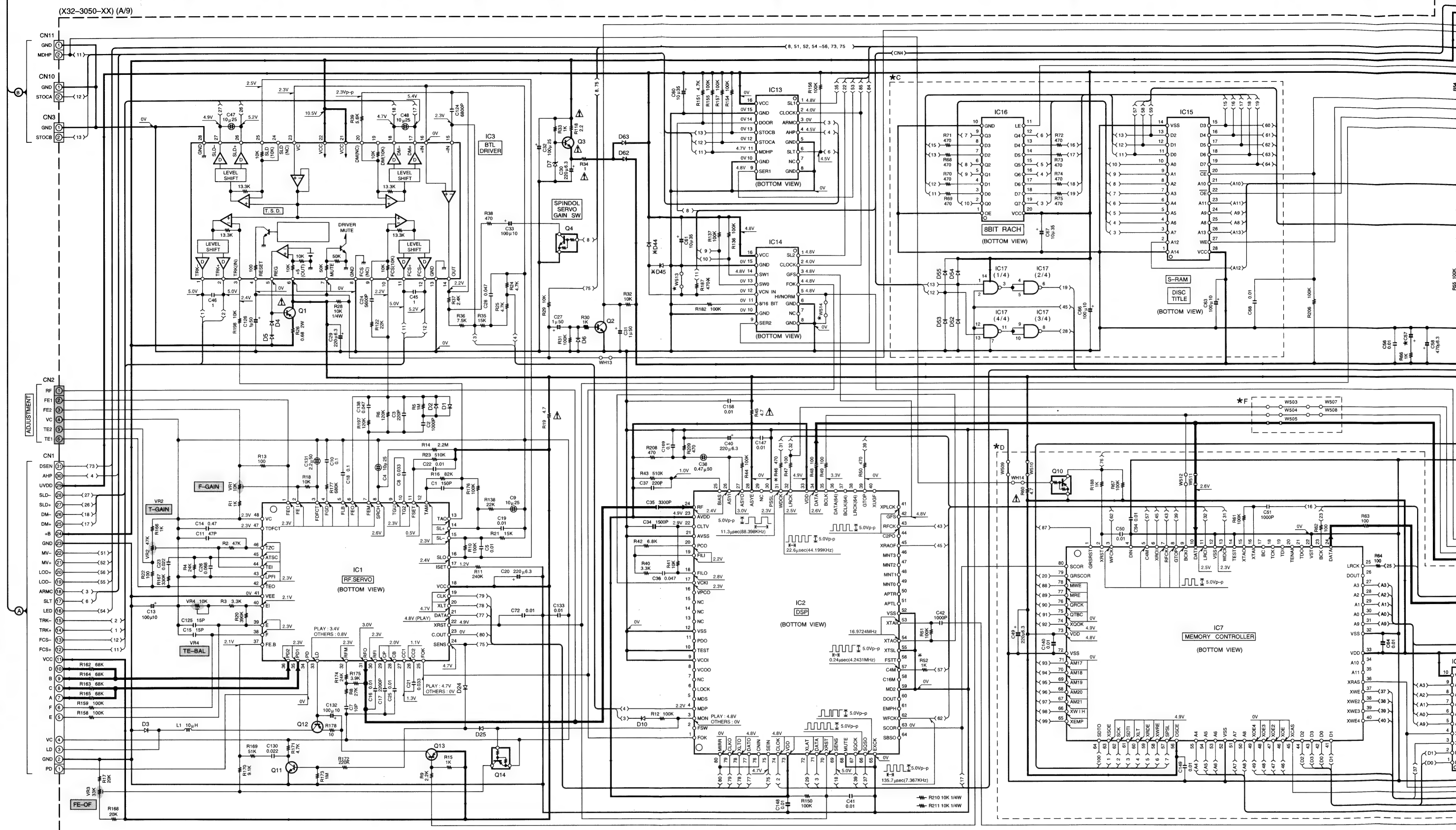
3

4

5

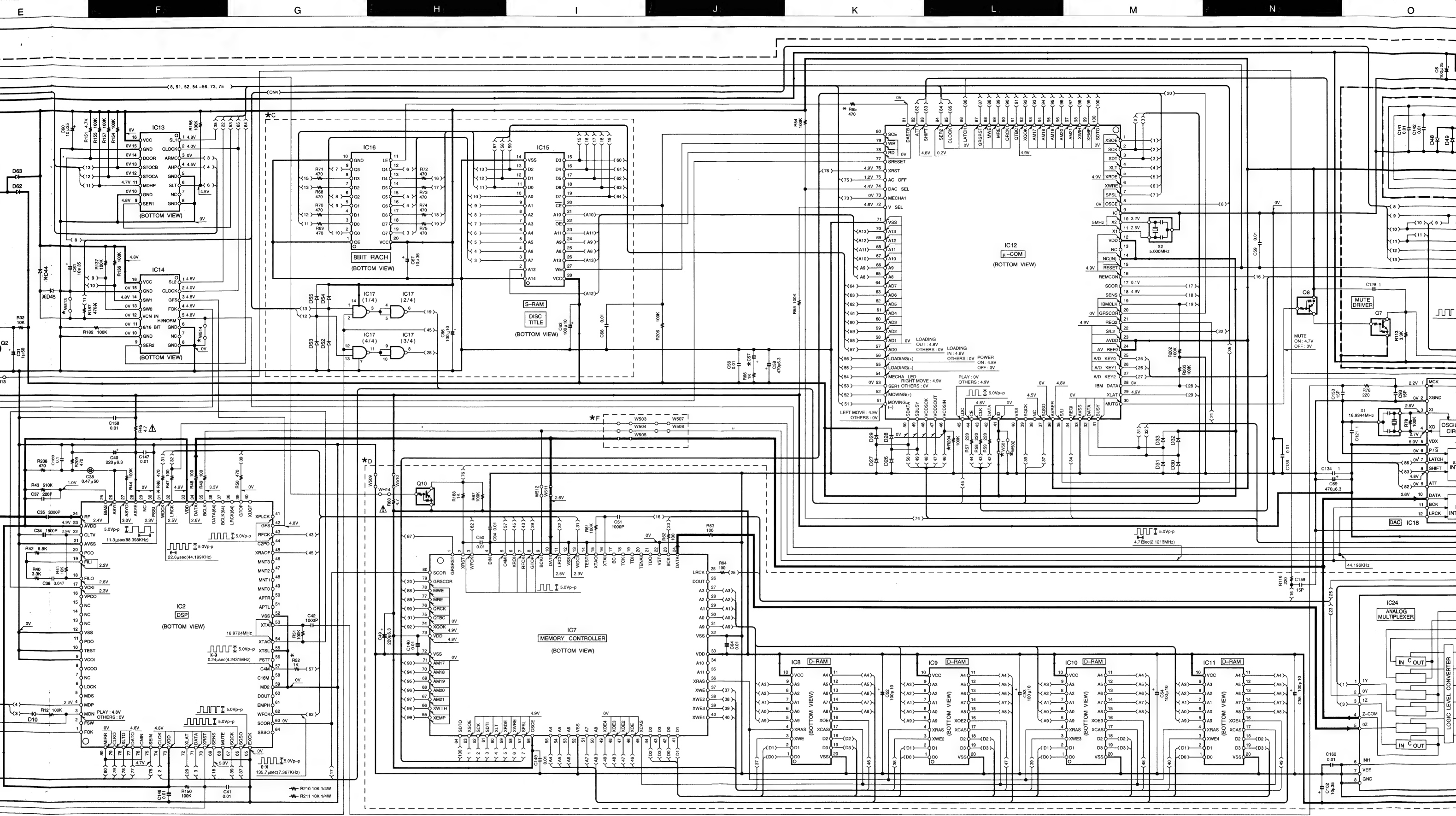
6

7



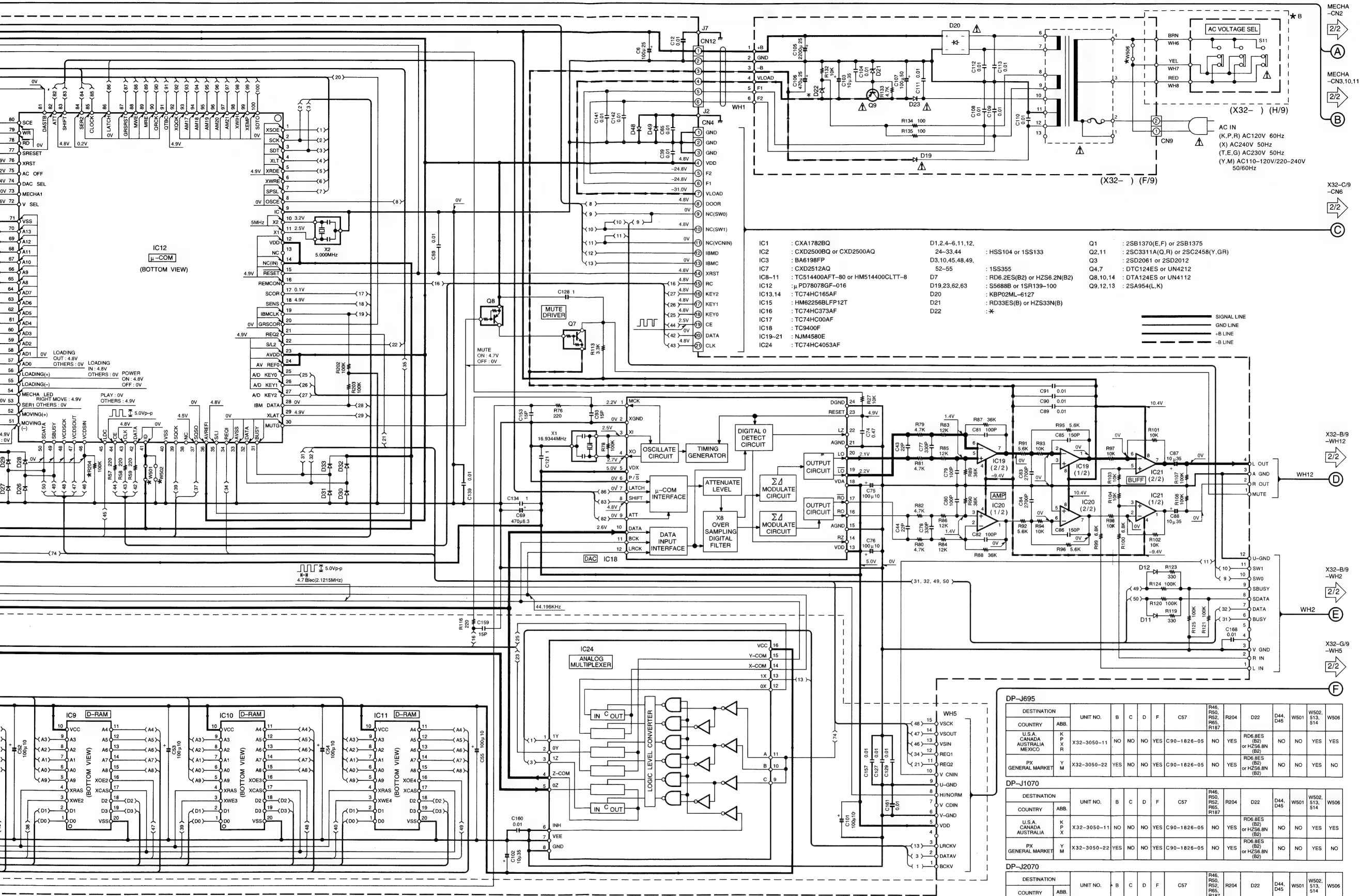
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.





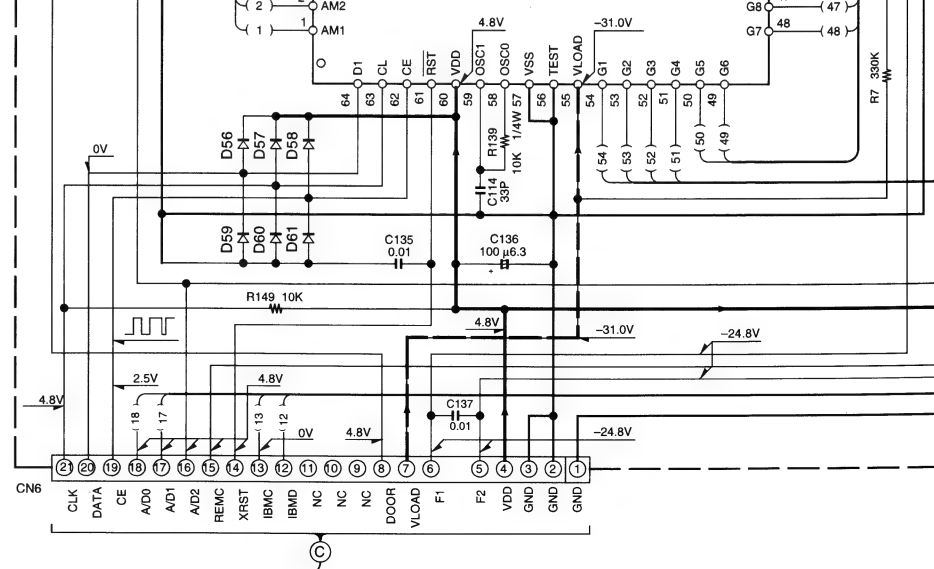
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

● DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

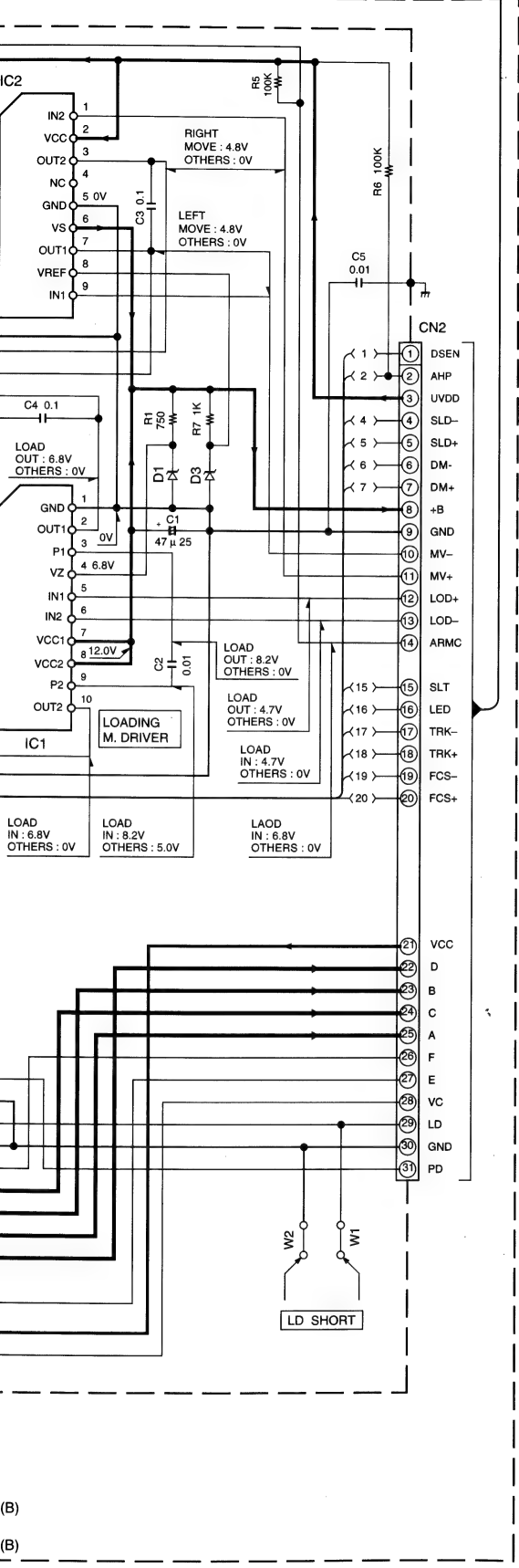


● DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

DP-J695											
DESTINATION	COUNTRY	UNIT NO.	B	C	D	F	C57	R46, R50, R52, R55, R187	R204	D22	D44, D45
U.S.A.	K	X32-3050-11	NO	NO	NO	YES	C90-1826-05	NO	YES	RD6.8ES (B2) or HZS6.8N (B2)	NO
CANADA	P										NO
AUSTRALIA	X										NO
MEXICO	R										YES
PX GENERAL MARKET	Y	X32-3050-22	YES	NO	NO	YES	C90-1826-05	NO	YES	RD6.8ES (B2) or HZS6.8N (B2)	NO
DP-J1070											
DESTINATION	COUNTRY	UNIT NO.	B	C	D	F	C57	R46, R50, R52, R55, R187	R204	D22	D44, D45
U.S.A.	K	X32-3050-11	NO	NO	NO	YES	C90-1826-05	NO	YES	RD6.8ES (B2) or HZS6.8N (B2)	NO
CANADA	P										NO
AUSTRALIA	X										YES
MEXICO	R										YES
PX GENERAL MARKET	Y	X32-3050-22	YES	NO	NO	YES	C90-1826-05	NO	YES	RD6.8ES (B2) or HZS6.8N (B2)	NO
DP-J2070											
DESTINATION	COUNTRY	UNIT NO.	B	C	D	F	C57	R46, R50, R52, R55, R187	R204	D22	D44, D45
U.S.A.	K	X32-3050-10	NO	YES	YES	NO	C90-2192-05	YES	NO	RD6.8ES (B2) or HZS6.8N (B2)	YES
CANADA	P										YES
AUSTRALIA	X										YES
U.K.	E										YES
EUROPE	G										YES
GERMANY	G										YES
PX GENERAL MARKET	Y	X32-3050-21	YES	YES	YES	NO	C90-2192-05	YES	NO	RD6.8ES (B2) or HZS6.8N (B2)	NO

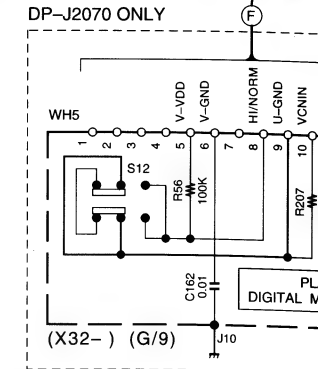
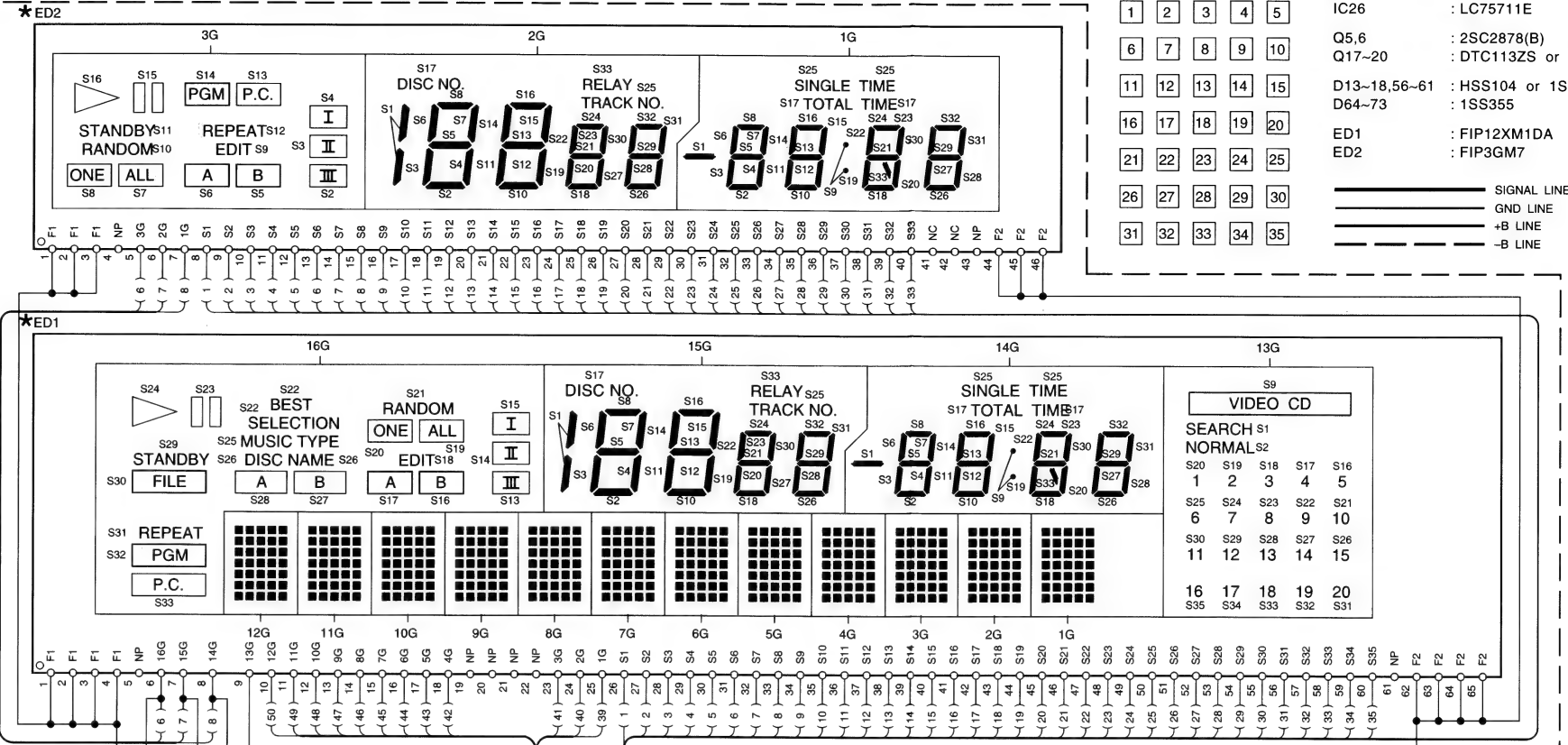


MODEL NAME	A	ED1	ED2	Q20	C119, 120
DP-J695 DP-J1070	NO	NO	YES	NO	NO
DP-J2070	YES	YES	NO	YES	YES

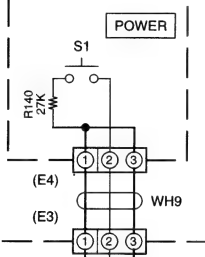


MODEL NAME	A	ED1	ED2	Q20	C119, 120
DP-J695	NO	NO	YES	NO	NO
DP-J1070	YES	YES	NO	YES	YES

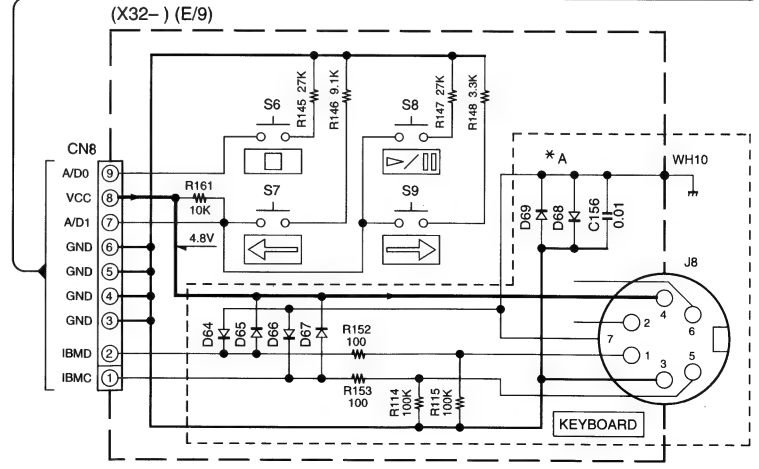
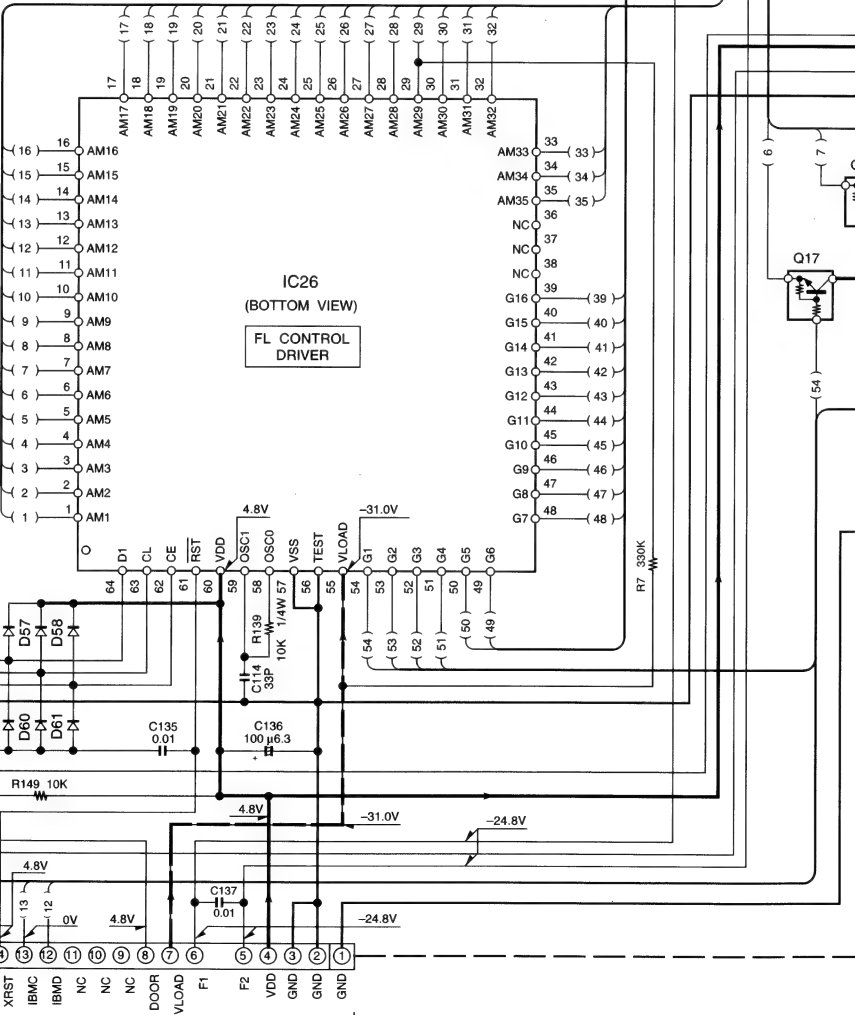
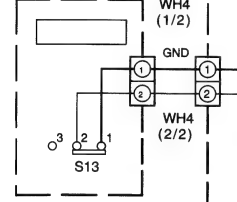
(X32-3050-XX) (C/9)



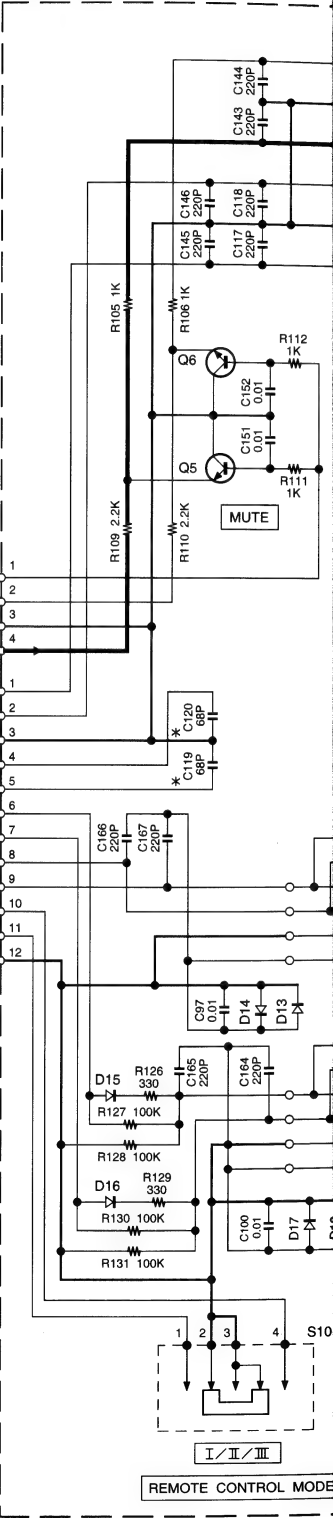
(X32-) (D/9)



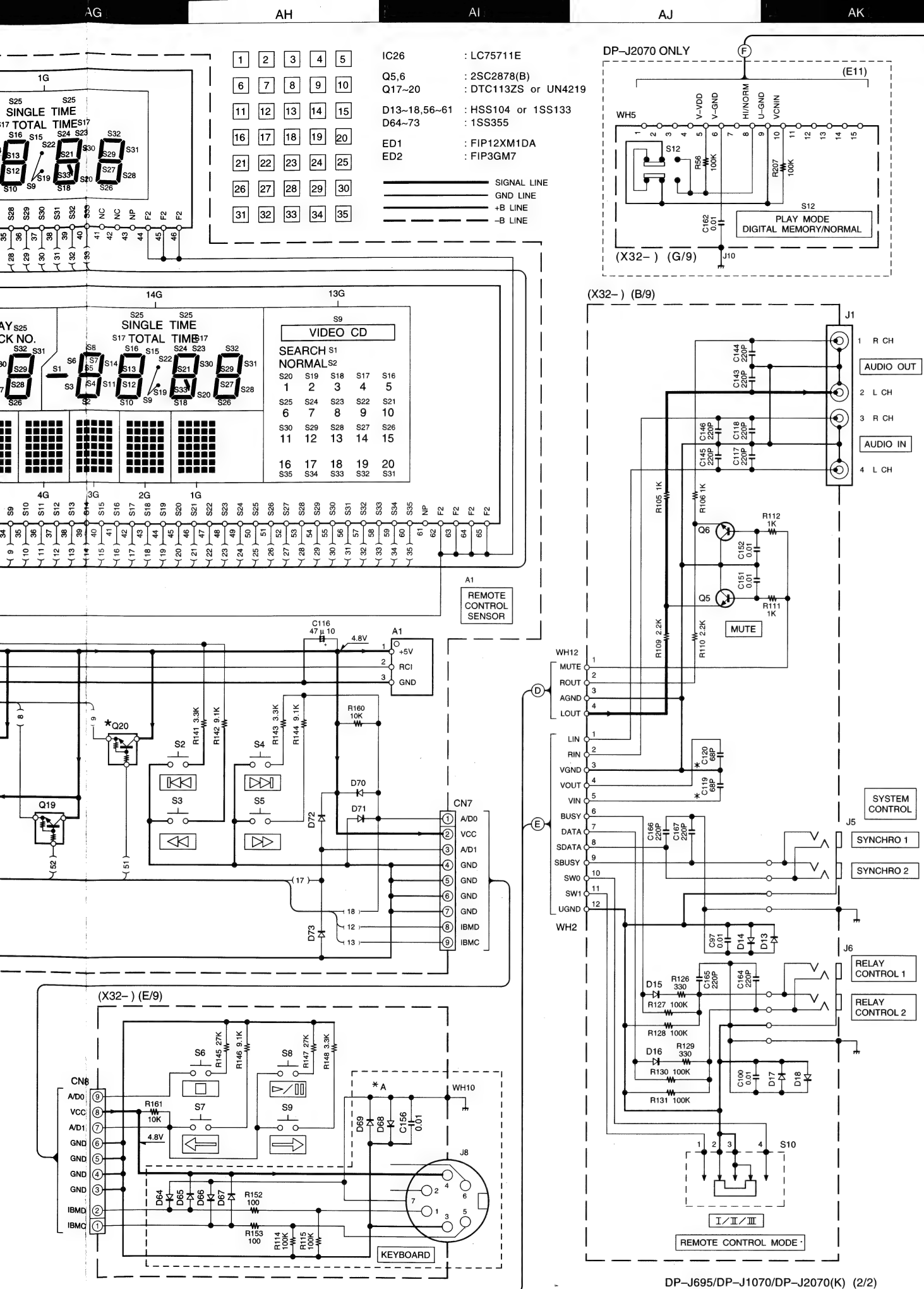
(X32-) (I/9)



(X32-) (B/9)



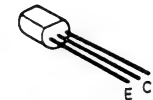




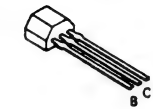
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

2SA954  
2SC2878



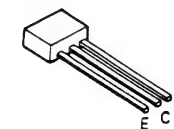
DTA124ES  
DTC124ES  
DTC143TS  
UN4112  
2SC2458



2SB1370  
2SD2061



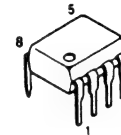
UN4212  
UN4216  
UN4219  
2SC3311A



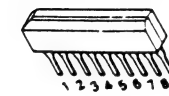
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2SD2012



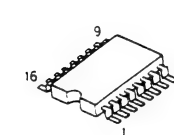
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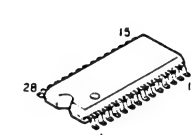
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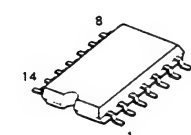
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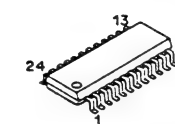
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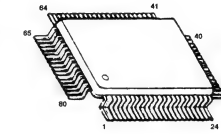
TC74HC00AF



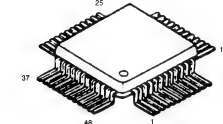
TC9400F



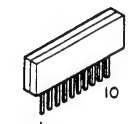
CXD2500AQ  
CXD2500BQ  
CXD2512AQ



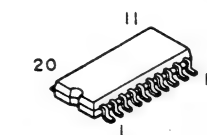
CXA1782BQ



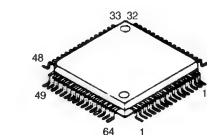
LB1641



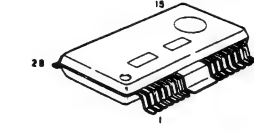
TC74HC373AF



LC75711E



BA6198FP



DP-J695/J1070/J2070

KENWOOD

Y22-4280-11

# DP-J695/J1070/J2070

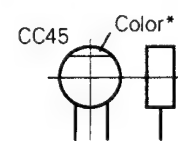
## PARTS DESCRIPTION

### CAPACITORS

CC	45	TH	1H	220	J
1	2	3	4	5	6

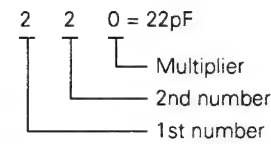
1 = Type ... ceramic, electrolytic, etc.  
2 = Shape ... round, square, ect.  
3 = Temp. coefficient

4 = Voltage rating  
5 = Value  
6 = Tolerance



### Capacitor value

010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001μF
103 = 0.01μF



### Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

### Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40	+80	+100	More than 10μF - 10 ~ +50 Less than 4.7μF - 10 ~ +75

### (Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

### Voltage rating

2nd word	A	B	C	D	E	F	G	H	J	K	V
1st word	0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

### Chip capacitors

(EX)	C	C	7	3	F	S	L	1	H	0	0	0	J
	1	2	3	4	5	6	7						

(Chip) (CH, RH, UJ, SL)

(EX)	C	K	7	3	F	F	1	H	0	0	0	Z
	1	2	3	4	5	6	7					

(Chip) (B, F)

### Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

### RESISTORS

#### Chip resistor (Carbon)

(EX)	R	K	7	3	E	B	2	B	0	0	0	J
	1	2	3	4	5	6	7					

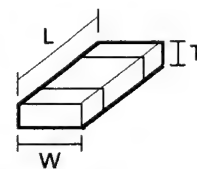
(Chip) (B, F)

#### Carbon resistor (Normal type)

(EX)	R	D	1	4	B	B	2	C	0	0	0	J
	1	2	3	4	5	6	7					

1 = Type	5 = Rating wattage
2 = Shape	6 = Value
3 = Dimension	7 = Tolerance
4 = Temp. coefficient	

### Dimension



### Dimension (Chip resistor)

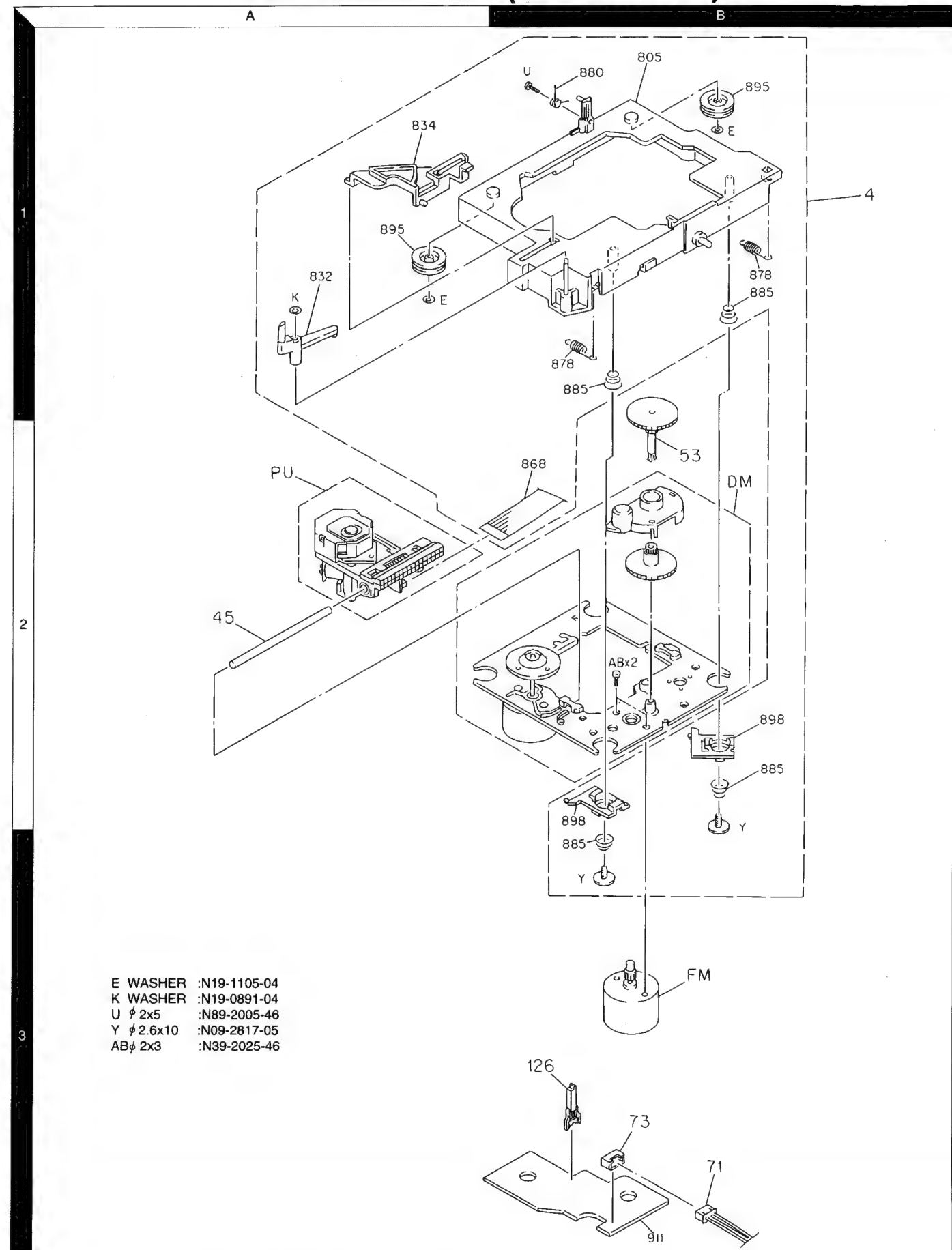
Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1

### Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

# DP-J695/J1070/J2070

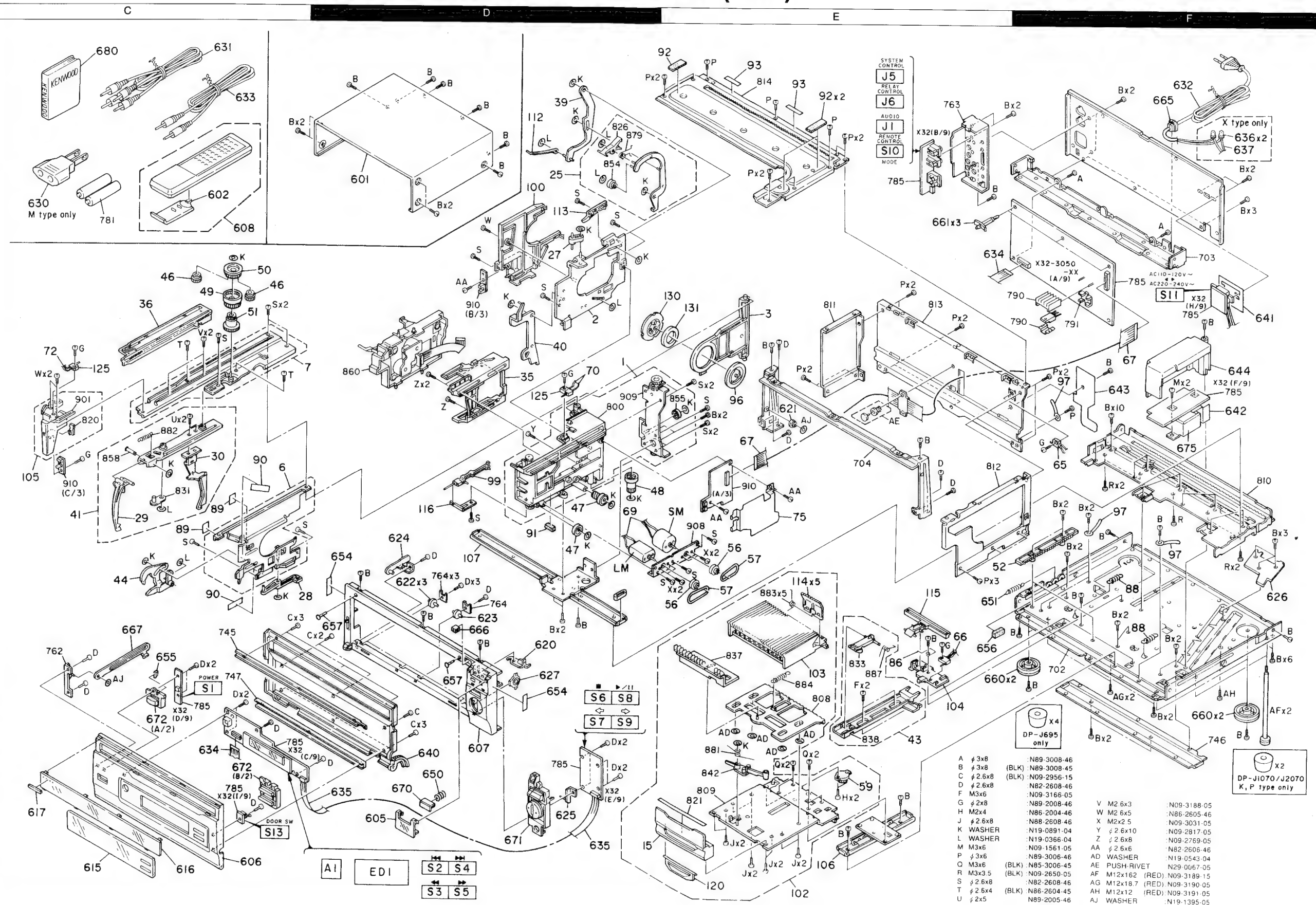
## EXPLODED VIEW(MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

# DP-J695/J1070/J2070 DP-J695/J1070/J2070

## EXPLODED VIEW (UNIT)



DP-J1070 (1/2)



\* New Parts

Parts without **Parts No.** are not supplied.

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Teile ohne **Parts No.** werden nicht geliefert.

NO.1

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
<b>DP-J695/J1070/J2070</b>						
601	1D	*	A01-3260-01	METALLIC CABINET		
602	1C	*	A09-0303-08	BATTERY COVER		
605	3D	*	A21-1866-04	DRESSING PANEL		
606	3C	*	A29-0390-21	PANEL (1070/2070)		
606	3C	*	A29-0801-21	PANEL (695)		
607	3D	*	A60-0697-11	PANEL (2070)		
607	3D	*	A60-0698-11	PANEL (1070)		
607	3D	*	A60-0699-11	PANEL (695)		
608	1C	*	A70-1013-15	REMO-CON ASSY (2070) RC-P0201	KPYX	
608	1C	*	A70-1013-15	REMO-CON ASSY (2070) RC-P0201	TEG	
608	1C	*	A70-1014-15	REMO-CON ASSY (695/1070)P0100	KRPYX	
608	1C	*	A70-1040-05	REMO-CON ASSY (2070) RC-P0201	M	
608	1C	*	A70-1041-05	REMO-CON ASSY (695/1070)P0100	M	
615	3C	*	B03-2938-03	DRESSING PLATE (2070)		
615	3C	*	B03-2939-03	DRESSING PLATE (695/1070)		
616	3C	*	B10-2080-12	FRONT GLASS		
616	3C	*	B10-2081-12	FRONT GLASS (1070)		
616	3C	*	B10-2082-12	FRONT GLASS (695)		
617	3C	*	B43-0287-04	KENWOOD BADGE (1070/2070)		
-		*	B46-0092-43	WARRANTY CARD	KY	
-		*	B46-0096-53	WARRANTY CARD	X	
-		*	B46-0121-33	WARRANTY CARD	P	
-		*	B46-0197-00	QUESTIONNAIRE CARD	K	
-		*	B46-0310-03	WARRANTY CARD	TEG	
-		*	B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-		*	B58-0964-13	CAUTION CARD (CAUTION UL)	KRY	
-		*	B58-0965-13	CAUTION CARD (TX TYPE PL)	XT	
-		*	B58-0966-13	CAUTION CARD (ELM TYPE PL)	ME	
-		*	B58-0967-03	CAUTION CARD (P TYPE PL)	P	
-		*	B58-0970-13	CAUTION CARD (RG TYPE PL)	RG	
-		*	B58-0992-04	CAUTION CARD (TRANSPORT SCR)		
-		*	B58-0993-04	CAUTION CARD (TRANSPORT SCR)		
-		*	B58-0998-04	CAUTION CARD (8cm CD)		
-		*	B59-1104-00	SERVICE DIRECTORY	Y	
-		*	B60-1995-10	INST.MANUAL (2070/EN)	TE	
-		*	B60-1995-10	INST.MANUAL (2070/EN)	KPYMX	
-		*	B60-1996-00	INST.MANUAL (2070/FR)	PE	
-		*	B60-1997-00	INST.MANUAL (2070/G)	EG	
-		*	B60-1998-00	INST.MANUAL (2070/D/I)	E	
-		*	B60-1999-00	INST.MANUAL (2070/SP)	ME	
-		*	B60-2000-00	INST.MANUAL (2070/C)	M	
-		*	B60-2001-00	INST.MANUAL (2070/TAIWAN)	M	
-		*	B60-2217-10	INST.MANUAL (695/1070/EN)		
-		*	B60-2218-00	INST.MANUAL (695/1070/FR)	P	
-		*	B60-2219-00	INST.MANUAL (695/1070/SP)	MR	
-		*	B60-2220-00	INST.MANUAL (695/1070/C)	M	
-		*	B60-2221-00	INST.MANUAL (695/1070/TAIWAN)	M	
620	3D	*	D10-3516-04	LEVER		
621	2E	*	D14-0371-04	ROLLER		
622	2D	*	D14-0373-04	ROLLER (BLACK)		
623	3D	*	D14-0324-04	ROLLER (GRAY)		
624	2D	*	D19-0288-04	PIN (L)		

L:Scandinavia

K:USA

P:Canada

R:Mexico

Y:PX(Far East, Hawaii)

T:England

E:Europe

G:Germany

Y:AAFES(Europe)

X:Australia

M:Other Areas

△ indicates safety critical components.

\* New Parts

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NO.2

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
625	3D	*	D19-0289-04	PIN (R)		
626	2F	*	D32-0347-04	STOPPER		
627	3D	*	D39-0314-05	DAMPER		
△ 630	1C	*	E03-0115-05	AC PLUG ADAPTER	M	
631	1C	*	E30-0505-05	AUDIO CORD	MEG	
△ 632	1F	*	E30-2592-15	AC POWER CORD	Y	
△ 632	1F	*	E30-2605-05	AC POWER CORD	KRP	
△ 632	1F	*	E30-2650-05	AC POWER CORD		
△ 632	1F	*	E30-2714-05	AC POWER CORD	X	
△ 632	1F	*	E30-2721-05	AC POWER CORD	T	
633	1C	*	E30-2733-05	CORD WITH PLUG		
634	1F,3C	*	E35-1078-05	FLAT CABLE (21P X32 CN4-CN6)		
635	3D	*	E35-1079-05	FLAT CABLE (9P X32 CN7-CN8)		
636	1F	*	E29-0163-05	WIRE CONNECTION CAP	X	
637	1F	*	E30-2814-05	CORD WITH CONNECTOR	X	
640	3D	*	F07-0750-21	COVER		
641	1F	*	F20-1423-04	INSULATING BOARD (VOLTAGE SEL)	YM	
642	2F	*	F20-1444-04	INSULATING BOARD (TRANS)	MXTEG	
643	2F	*	F20-1461-04	INSULATING BOARD (S-CHASSIS R)	YM	
△ 644	2F	*	F29-0113-12	INSULATING COVER		
650	3D	*	G01-3831-04	COMPRESSION SPRING (OPEN)		
651	2F	*	G09-0643-14	SPRING (2070)		
651	2F	*	G09-0644-14	SPRING (695/1070)		
654	2D,3D	*	G10-0419-04	NON-WOVEN FABRIC (PANEL)		
655	3C	*	G11-2238-14	CUSHION (POWER)		
656	3F	*	G11-2244-14	CUSHION (DOOR SPRING)		
657	3D	*	G13-0182-04	CUSHION (DOOR)		
-		*	H50-1584-04	ITEM CARTON CASE (2070)	KPYMX	
-		*	H50-1584-04	ITEM CARTON CASE (2070)	EG	
-		*	H50-1585-04	ITEM CARTON CASE (2070)	T	
-		*	H50-1586-04	ITEM CARTON CASE (1070)		
-		*	H50-1587-04	ITEM CARTON CASE (695)		
-		*	H10-7090-02	POLYSTYRENE FOAMED FIXTURE (L)		
-		*	H10-7091-12	POLYSTYRENE FOAMED FIXTURE (R)		
-		*	H12-2245-04	PACKING FIXTURE	T	
-		*	H12-2260-04	PACKING FIXTURE	X	
-		*	H13-0203-14	CARTON BOARD	M	
-		*	H20-0580-04	PROTECTION COVER		
-		*	H21-0321-24	PROTECTION SHEET		
-		*	H21-0322-04	PROTECTION SHEET		
-		*	H21-0323-04	PROTECTION SHEET		
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)	KRPYMX	
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)	EG	
-		*	H25-0383-04	PROTECTION BAG (SET)	KRPYX	
-		*	H25-0383-04	PROTECTION BAG (SET)	TEG	
-		*	H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
660	3F	*	J02-1013-05	FOOT (695)		
660	3F	*	J02-1013-05	FOOT (REAR) (1070/2070)		
660	3F	*	J02-1024-05	FOOT (1070/2070)	KP	
661	1E	*	J19-3328-15	UNIT HOLDER		
△ 665	1F	*	J42-0083-05	POWER CORD BUSHING		
666	3D	*	J52-0032-05	MAGNET CATCH		

L:Scandinavia

K:USA

P:Canada

R:Mexico

Y:PX(Far East, Hawaii)

T:England

E:Europe

G:Germany

Y:AAFES(Europe)

X:Australia

M:Other Areas

△ indicates safety critical components.

PARTS LIST

DP-J695/J1070/J2070

\* New Parts

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NO.3

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
667	3C	*	J54-0074-14	STAY		
-		*	J11-0807-14	CLAMPER		
-		*	J11-0810-05	WIRE CLAMPER (AC CORD)	KRPX	
-		*	J11-0810-05	WIRE CLAMPER (AC CORD)	TEG	
-		*	J61-0307-05	WIRE BAND	X	
670	3D	*	K27-2165-04	KNOB (OPEN)		
671	3D	*	K29-6084-03	KNOB (PLAY/STOP)		
672	3C	*	K29-6134-03	KNOB (POWER/SKIP)		
△ 675	2F	*	L07-1964-05	POWER TRANSFORMER (2070)	KP	
△ 675	2F	*	L07-1965-05	POWER TRANSFORMER (2070)	YM	
△ 675	2F	*	L07-1996-05	POWER TRANSFORMER (695/1070)	KRP	
△ 675	2F	*	L07-1997-05	POWER TRANSFORMER (695/1070)	YM	
△ 675	2F	*	L07-1998-05	POWER TRANSFORMER (695/1070)	X	
△ 675	2F	*	L07-1999-05	POWER TRANSFORMER (2070)	XTEG	
AF	2F,3F	*	N09-3189-15	STEPPED SCREW RED (M12X162)		
AG	2F,3F	*	N09-3190-05	STEPPED SCREW RED (M12X18.7)		
AH	2F,3F	*	N09-3191-05	STEPPED SCREW RED (M12X12)		
AJ	3C	*	N19-1395-05	FLAT WASHER		
C	3C,3D	*	N09-2956-15	DRESSED SCREW BLACK (M2.6X8)		
M	2F	*	N09-1561-05	TAPTITE SCREW (3X6,+)		
680	1C	*	W01-0879-05	CARD HOLDER		
<b>CD PLAYER UNIT (X32-3050-XX)</b>						
C1			CC73FSL1H151J	CHIP C	150PF	J
C2			CK73FB1H102K	CHIP C	1000PF	K
C3			CC73FSL1H221J	CHIP C	220PF	J
C4			CE04HW1E100M	NP-ELEC	10UF	25WV
C5			CK73FB1H103K	CHIP C	0.010UF	K
C6			CE04KW1E101M	ELECTRO	100UF	25WV
C7			CC73FSL1H100D	CHIP C	10PF	D
C8			CK73FB1H333K	CHIP C	0.033UF	K
C9			CE04HW1E100M	NP-ELEC	10UF	25WV
C10			CK73FB1E104K	CHIP C	0.10UF	K
C11			CC73FSL1H470J	CHIP C	47PF	J
C12			CK73FB1H103K	CHIP C	0.010UF	K
C13			CE04KW1A101M	ELECTRO	100UF	10WV
C14			CK73EB1C474K	CHIP C	0.47UF	K
C15			CC73FSL1H150J	CHIP C	15PF	J
C16			CK73FB1H103K	CHIP C	0.010UF	K
C17			CK73FB1H222K	CHIP C	2200PF	K
C18			CK73FB1E104K	CHIP C	0.10UF	K
C19			CK73FB1H103K	CHIP C	0.010UF	K
C20			CE04KW0J221M	ELECTRO	220UF	6.3WV
C21			CK73FB1H333K	CHIP C	0.033UF	K
C22			CK73FB1H103K	CHIP C	0.010UF	K
C23			CK73FB1H223K	CHIP C	0.022UF	K
C24			CK73FB1H562K	CHIP C	5600PF	K
C25			CK73FB1H103K	CHIP C	0.010UF	K
C26			CK73FB1H683K	CHIP C	0.068UF	K
C27			CE04KW1H010M	ELECTRO	1.0UF	50WV
C28			CK73FB1H473K	CHIP C	0.047UF	K
C29,30			CE04KW0J221M	ELECTRO	220UF	6.3WV
C31			CE04KW1H010M	ELECTRO	1.0UF	50WV

L:Scandinavia

K:USA

P:Canada

R:Mexico

Y:PX(Far East, Hawaii)

T:England

E:Europe

G:Germany

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\* New Parts

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NO.4

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
C32			CE04KW1E101M	ELECTRO	100UF	25WV
C33			CE04KW1A101M	ELECTRO	100UF	10WV
C34			CK73FB1H152K	CHIP C	1500PF	K
C35			CK73FB1H332K	CHIP C	3300PF	K
C36			CK73FB1H473K	CHIP C	0.047UF	K
C37			CC45FSL1H221J	CERAMIC	220PF	J
C38			CE04HW1HR47M	NP-ELEC	0.47UF	50WV
C39			CK73FB1H103K	CHIP C	0.010UF	K
C40			CE04KW0J221M	ELECTRO	220UF	6.3WV
C41			CK45FF1H103Z	CERAMIC	0.010UF	Z
C42			CK45FB1H102K	CERAMIC	1000PF	K
C43,44			CC45FSL1H220J	CERAMIC	22PF	J
C45,46			CK73FF1C105Z	CHIP C	1.0UF	Z
C47,48			CE04HW1E100M	NP-ELEC	10UF	25WV
C49			CE04KW0J221M	ELECTRO	220UF	6.3WV
C50			CK73FB1H103K	CHIP C	0.010UF	K
C51			CK45FB1H102K	CERAMIC	1000PF	K
C52-55			CE04KW1A101M	ELECTRO	100UF	10WV
C56			CK45FF1H103Z	CERAMIC	0.010UF	Z
C57			C90-1826-05	BACKUP	0.047F	5.5WV
C57			C90-2192-05	BACKUP	0.1F	5.5WV
C58			CE04KW0J471M	ELECTRO	470UF	6.3WV
C59			CK73FB1H103K	CHIP C	0.010UF	K
C60,61			CE04KW1V100M	ELECTRO	10UF	35WV
C63			CE04KW1A101M	ELECTRO	100UF	10WV
C64			CK73FB1H103K	CHIP C	0.010UF	K
C65			CK73FB1H103K	CHIP C	0.010UF	K
C66			CE04KW1A101M	ELECTRO	100UF	10WV
C67			CE04KW1V100M	ELECTRO	10UF	35WV
C68			CK73FB1H103K	CHIP C	0.010UF	K
C69			CE04KW0J471M	ELECTRO	470UF	6.3WV
C72			CK45FF1H103Z	CERAMIC	0.010UF	Z
C74			CK73FF1E474Z	CHIP C	0.47UF	Z
C75,76			CE04KW1A101M	ELECTRO	100UF	10WV
C77,78			CF92FV1H331K	MF-C	330PF	K
C79-82			CF92FV1H101K	MF-C	100PF	K
C83,84			CF92FV1H272J	MF-C	2700PF	J
C85,86			CF92FV1H151K	MF-C	150PF	K
C87,88			CE04KW1V100M	ELECTRO	10UF	35WV
C89-91			CK45FF1H103Z	CERAMIC	0.010UF	Z
C93			CC73FSL1H150J	CHIP C	15PF	J
C94			CK73FB1H103K	CHIP C	0.010UF	K
C97			CK73FB1H103K	CHIP C	0.010UF	K
C100			CK73FB1H103K	CHIP C	0.010UF	K
C101			CE04KW1A101M	ELECTRO	100UF	10WV
C102			CE04KW1V100M	ELECTRO	10UF	35WV
C103			CE04KW1V100M	ELECTRO	10UF	35WV
C104			CK45FF1H103Z	CERAMIC	0.010UF	Z
C105			CE04KW1E222M	ELECTRO	2200UF	25WV
C106			CE04KW1E471M	ELECTRO	470UF	25WV
C107			CE04KW1H101M	ELECTRO	100UF	50WV
C108-113			CK45FF1H103Z	CERAMIC	0.010UF	Z
C114			CC73FSL1H330J	CHIP C	33PF	J
C116			CE04KW1A470M	ELECTRO	47UF	10WV
C117,118			CC73FSL1H221J	CHIP C	220PF	J

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NO.5

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C119,120			CC73FSL1H680J	CHIP C 68PF J		2
C121			CK73FF1C105Z	CHIP C 1.0UF Z		
C124			CK73FB1H682K	CHIP C 6800PF K		
C125			CC73FSL1H150J	CHIP C 15PF J		
C126			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C127			CK45FF1H103Z	CERAMIC 0.010UF Z		2
C128			CF92FV1H105J	MF-C 1.0UF J		
C129			CK45FF1H103Z	CERAMIC 0.010UF Z		2
C130			CK73FB1H223K	CHIP C 0.022UF K		
C131			CE04HW1H2R2M	NP-ELEC 2.2UF 50WV		
C132			CE04KW1A101M	ELECTRO 100UF 10WV		
C133			CK73FB1H103K	CHIP C 0.010UF K		
C134			CK73FF1C105Z	CHIP C 1.0UF Z		
C135			CK73FB1H103K	CHIP C 0.010UF K		
C136			C90-3214-05	ELECTRO 100UF 6.3WV		
C137			CK45FF1H103Z	CERAMIC 0.010UF Z		
C138			CK73FB1H473K	CHIP C 0.047UF K		
C139			CK73FB1H103K	CHIP C 0.010UF K		
C140			CK73FB1H103K	CHIP C 0.010UF K		2
C141,142			CK73FB1H103K	CHIP C 0.010UF K		
C143-146			CC73FSL1H221J	CHIP C 220PF J		
C147,148			CK45FF1H103Z	CERAMIC 0.010UF Z		
C149			CK45FF1H103Z	CERAMIC 0.010UF Z		2
C151,152			CK73FB1H103K	CHIP C 0.010UF K		
C153			CC73FSL1H150J	CHIP C 15PF J		
C156			CK73FB1H103K	CHIP C 0.010UF K		2
C157,158			CK73FB1H103K	CHIP C 0.010UF K		
C159			CC73FSL1H150J	CHIP C 15PF J		2
C160,161			CK73FB1H103K	CHIP C 0.010UF K		
C162			CK73FB1H103K	CHIP C 0.010UF K		2
C164-167			CC73FSL1H221J	CHIP C 220PF J		
C168			CK73FB1H103K	CHIP C 0.010UF K		
C169			CK73FF1E104Z	CHIP C 0.10UF Z		
CN1	1F		E40-4171-05	FLAT CABLE CONNECTOR (31P)		
CN2	1F		E40-0612-05	PIN ASSY (6P)		
CN3	1F		E40-4362-05	PIN ASSY (2P RED)		
CN4	1F		E40-4161-05	FLAT CABLE CONNECTOR (21P)		
CN6	3C		E40-4201-05	FLAT CABLE CONNECTOR (21P)		
CN7,8	3C,3D	*	E40-4189-05	FLAT CABLE CONNECTOR (9P)		
CN9	2F		E40-4245-05	PIN ASSY (2P)		
CN10	1F	*	E40-4373-05	PIN ASSY (2P BLUE)		
CN11	1F		E40-3246-05	PIN ASSY (2P WHITE)		
CN12	1F		E40-4296-05	FLAT CABLE CONNECTOR (6P)		
J1		*	E63-0149-05	PHONO JACK(4P) AUDIO		
J5		*	E11-0188-05	MINIATURE PHONE JACK(2P)S.CONT		
J6		*	E11-0273-05	MINIATURE PHONE JACK(2P)RELAY		
J8		*	E56-0013-15	CYLINDRICAL RECEPTACLE KEY.BD		2
-			J11-0098-05	WIRE CLAMPER		
L1			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)		
X1			L78-0299-05	RESONATOR (16.93M)		
X2			L78-0284-05	RESONATOR (5.000MHz)		
R1			RK73FB2A102J	CHIP R 1.0K J	1/10W	
R2			RK73FB2A473J	CHIP R 47K J	1/10W	

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NO.6

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R3			RK73FB2A332J	CHIP R 3.3K J	1/10W	
R4			RK73FB2A243J	CHIP R 24K J	1/10W	
R5			RK73FB2A105J	CHIP R 1.0M J	1/10W	
R6			RK73FB2A124J	CHIP R 120K J	1/10W	
R7			RK73FB2A334J	CHIP R 330K J	1/10W	
R8			RK73FB2A273J	CHIP R 27K J	1/10W	
R10			RK73FB2A104J	CHIP R 100K J	1/10W	
R12			RK73FB2A104J	CHIP R 100K J	1/10W	
R13			RK73FB2A101J	CHIP R 100 J	1/10W	
R14			RK73FB2A225J	CHIP R 2.2M J	1/10W	
R15			RK73FB2A102J	CHIP R 1.0K J	1/10W	
R16			RK73FB2A823J	CHIP R 82K J	1/10W	
R17			RK73FB2A203J	CHIP R 20K J	1/10W	
R18			RK73FB2A103J	CHIP R 10K J	1/10W	
Δ R19			RK73FB2A4R7J	CHIP R 4.7 J	1/10W	
R20			RK73FB2A394J	CHIP R 390K J	1/10W	
R21			RK73FB2A153J	CHIP R 15K J	1/10W	
R22			RK73FB2A101J	CHIP R 100 J	1/10W	
R23			RK73FB2A514J	CHIP R 510K J	1/10W	
R24,25			RK73FB2A472J	CHIP R 4.7K J	1/10W	
R26			RS14KB3DR68J	FL-PROOF RS 0.68 J	2W	
R27			RK73FB2A103J	CHIP R 10K J	1/10W	
Δ R34			RK73FB2A1R0J	CHIP R 1.0 J	1/10W	
R38			RK73FB2A471J	CHIP R 470 J	1/10W	
Δ R45			RK73FB2A4R7J	CHIP R 4.7 J	1/10W	
R57-59			RK73FB2A221J	CHIP R 220 J	1/10W	
Δ R60			RK73FB2A4R7J	CHIP R 4.7 J	1/10W	
R64			RK73FB2A101J	CHIP R 100 J	1/10W	
R69			RK73FB2A471J	CHIP R 470 J	1/10W	
R76			RK73FB2A221J	CHIP R 220 J	1/10W	
R105,106			RK73FB2A102J	CHIP R 1.0K J	1/10W	
R109,110			RK73FB2A222J	CHIP R 2.2K J	1/10W	
R111,112			RK73FB2A102J	CHIP R 1.0K J	1/10W	
R114,115			RK73FB2A104J	CHIP R 100K J	1/10W	
R116			RK73FB2A221J	CHIP R 220 J	1/10W	
Δ R118			RK73FB2A2R2J	CHIP R 2.2 J	1/10W	
R122			RK73FB2A223J	CHIP R 22K J	1/10W	
R136,137			RK73FB2A104J	CHIP R 100K J	1/10W	
R138			RK73FB2A223J	CHIP R 22K J	1/10W	
R162-165			RK73FB2A683J	CHIP R 68K J	1/10W	
R166			RK73FB2A102J	CHIP R 1.0K J	1/10W	
R167			RK73FB2A334J	CHIP R 330K J	1/10W	
R168			RK73FB2A203J	CHIP R 20K J	1/10W	
R169			RK73FB2A513J	CHIP R 51K J	1/10W	
R171			RK73FB2A472J	CHIP R 4.7K J	1/10W	
R173			RK73FB2A105J	CHIP R 1.0M J	1/10W	
R174			RK73FB2A243J	CHIP R 24K J	1/10W	
R175			RK73FB2A392J	CHIP R 3.9K J	1/10W	
R176			RK73FB2A104J	CHIP R 100K J	1/10W	
R177			RK73FB2A684J	CHIP R 680K J	1/10W	
R178			RK73FB2A100J	CHIP R 10 J	1/10W	
R182			RK73FB2A104J	CHIP R 100K J	1/10W	
R188			RK73FB2A102J	CHIP R 1.0K J	1/10W	
R197			RK73FB2A124J	CHIP R 120K J	1/10W	
R202			RK73FB2A104J	CHIP R 100K J	1/10W	

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## NO.7

Ref. No.	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
R204 VR1 VR2 VR3 VR4			RK73FB2A104J R12-3127-05 R12-3133-05 R12-3131-05 R12-3127-05	CHIP R 100K J 1/10W TRIMMING POT.(10K) FE-GAIN TRIMMING POT.(47K) TE-GAIN TRIMMING POT.(33K) FE-BIAS TRIMMING POT.(10K) TE-BALANCE		6/1
W378			R92-0670-05	CHIP R 0 OHM		
S1-9 S10 S11 S12 S13	Δ		S40-1064-05 S62-0037-05 S31-3010-05 S31-2132-05 S64-0006-05	PUSH SWITCH SLIDE SWITCH REMO-CON MODE SLIDE SWITCH AC VOLTAGE SEL SLIDE SWITCH D.MEMORY/NORMAL LEVER SWITCH DOOR	YM	2
D1,2 D1,2 D3 D4-6 D4-6			HSS104 1SS133 1SS355 HSS104 1SS133	DIODE DIODE DIOD DIODE DIODE		
D7 D7 D10 D11-18 D11-18			HZS6.2N(B2) RD6.2ES(B2) 1SS355 HSS104 1SS133	ZENER DIODE ZENER DIODE DIODE DIODE DIODE		
Δ D19 Δ D19 Δ D20 D21 D21			S5688B 1SR139-100 KBP02ML-6127 HZS33N(B) RD33ES(B)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D22 D22 D22 D22 D23	Δ		HZS6.8N(B2) HZS8.2N(B2) RD6.8ES(B2) RD8.2ES(B2) S5688B	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE		6/1 2 6/1 2
Δ D23 D24-33 D24-33 D44 D44			1SR139-100 HSS104 1SS133 HSS104 1SS133	DIODE DIODE DIODE DIODE DIODE		2 2
D45 D48,49 D52-55 D56-61 D56-61			1SS355 1SS355 1SS355 HSS104 1SS133	DIODE DIODE DIODE DIODE DIODE		2 2
D62,63 D62,63 D64-69 D70-73 ED1			S5688B 1SR139-100 1SS355 1SS355 FIP12XM1DA	DIODE DIODE DIODE DIODE INDICATOR TUBE		2 2
ED2 IC1 IC2 IC2 IC3		*	FIP3GM7 CXA1782BQ CXD2500AQ CXD2500BQ BA6198FP	INDICATOR TUBE IC(CD-DSP) IC(SIGNAL PROCESSOR) IC(DIGITAL SIGNAL PROCESSOR) ANALOGUE IC		6/1
IC7 IC8-11 IC8-11			CXD2512AQ HM514400CLTT-8 TC514400AFT-80	MOS-IC MEMORY IC MEMORY IC		2 2 2

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Ref. No.	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
IC12 IC13,14 IC15 IC16 IC17		*	UPD78078GF-016 TC74HC165AF HM62256BLFP12T TC74HC373AF TC74HC00AF	MI-COM IC IC(8BIT SHIFT REGISTER) MEMORY IC IC(8 bit LATCH) IC(2INPUT NAND GATE)		2 2
IC18 IC19-21 IC24 IC26 Q1	Δ		TC9400F NJM4580E TC74HC4053AF LC75711E 2SB1370(E,F)	MOS-IC ANALOGUE IC IC IC(DISPLAY DRIVER) TRANSISTOR		2
Δ Q1 Q2 Q2 Q3 Δ Q3			2SB1375 2SC2458(Y,GR) 2SC3311A(Q,R) 2SD2012 2SD2061	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q4 Q4 Q5,6 Q7 Q7			DTC124ES UN4212 2SC2878(B) DTC124ES UN4212	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q8 Q9 Q10 Q10	Δ		DTA124ES UN4112 2SA954(L,K) DTA124ES UN4112	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		2 2
Q11 Q11 Q12,13 Q14 Q14			2SC2458(Y,GR) 2SC3311A(Q,R) 2SA954(L,K) DTA124ES UN4112	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q17-19 Q17-19 Q20 Q20			DTC113ZS UN4219 DTC113ZS UN4219	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		2 2
A1 A1			W02-1046-05 W02-1153-05	ELECTRIC CIRCUIT MODULE ELECTRIC CIRCUIT MODULE		
<b>MECHANISM PCB</b>						
D2			B30-1012-05	LED(SLP-981C-51)		
C1 C2 C3,4 C5			C90-3237-05 CQ93FMG1H103J CQ93FMG1H104J CK45FF1H103Z	ELECTRO 47UF 25WV MYLAR 0.010UF J MYLAR 0.10UF J CERAMIC 0.010UF Z		
CN1 CN2 CN3 CN4,5 CN6	2E 2E 2E 2E 2E	*	E40-4818-05 E40-4211-05 E40-3264-05 E40-3260-05 E40-3262-05	FLAT CABLE CONNECTOR (16P) FLAT CABLE CONNECTOR (31P) PIN ASSY (6P) PIN ASSY (2P) PIN ASSY (4P)		
CN7 WH1	2E 1D,2C	*	E40-4969-05 E35-1144-05	PIN ASSY (5P) WIRING HARNESS (5P X92-CN7)		
PH1		*	T95-0140-05	OPTO ISOLATOR		
D1			HZS6.8N(B)	ZENER DIODE		

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NO.9

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D1 D3 D3 IC1 IC2			RD6.8ES(B) HZS5.6N(B) RD5.6ES(B) LB1641 TA8409S	ZENER DIODE ZENER DIODE ZENER DIODE IC(MOTOR DRIVER) IC(MOTOR CONTROL)		
Q1 Q1 Q2 Q2			DTC124ES UN4212 DTC143TS UN4216	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
<b>MECHANISM (X92-2050-10)</b>						
1 2 3 4 6	2D 1D 1E 1B 2C	*	A10-3204-01 A11-1057-03 A11-1059-03 A11-1064-02 A11-1066-03	CHASSIS ASSY SUB CHASSIS CALKING ASSY SUB CHASSIS (CLAMP) SUB CHASSIS ASSY (T.U) SUB CHASSIS CALKING ASSY(GIDE)		
7 15 15 DM	2C 3E 3E 2B	*	A11-1068-03 A29-0396-02 A29-0400-02 A11-1082-08	SUB CHASSIS CALKING ASSY (LD) PANEL (RACK A) PANEL (RACK B) SUB CHASSIS ASSY		
25 27 28 29 30	1D 1D 2C 2C 2C	*	D10-3534-03 D10-3539-04 D10-3540-03 D10-3542-02 D10-3543-03	ARM ASSY (DRIVE) ARM (LIFT CHANGE) LEVER (CLAMP) ARM (FRONT) ARM (REAR)		
35 36 39 40 41	2D 1C 1D 2D 2C	*	D10-3549-01 D10-3551-03 D10-3567-04 D10-3568-04 D10-3569-02	SLIDER (LIFT) SLIDER (LD) ARM ASSY (LINK) ARM ASSY (SHAFT) SLIDER ASSY		
43 44 45 46 47	3E 2C 2A 1C 2D	*	D10-3586-04 D10-3599-04 D10-3606-08 D13-0978-03 D13-1683-03	SLIDER ASSY LEVER ASSY ROD GEAR (IDLER) WORM (PULLEY)		
48 49 50 51 52	2E 1C 1C 1C 2F	*	D13-1684-04 D13-1686-03 D13-1687-03 D13-1688-04 D13-1718-04	GEAR (SELECT) GEAR (INNER) GEAR (CARRIER) GEAR (SUN) RACK (GEAR) (STOCKER)		
53 56 57 59	2B 2E 2E 3E	*	D13-1720-08 D15-0381-04 D16-0382-04 D39-0316-05	GEAR PULLEY BELT DAMPER		
65 66 66 67 69	2F 3E 3E 2E 2D	*	E30-2811-05 E30-2812-05 E30-2813-05 E35-1080-05 E35-1141-05	CONNECT CORD ASY(WHT X32-CN11) CONNECT CORD ASY(BLU X32-CN10) CONNECT CORD ASY(RED X32-CN3) FLAT CABLE ASSY(31P X32-CN1) WIRING HARNESS (4P X92-CN6)		
70 71 72 73	2D 3B 2C 3B	*	E35-1142-05 E35-1143-05 E35-1145-05 E40-3264-05	WIRING HARNESS (2P X92-CN4) WIRING HARNESS (6P X92-CN3) WIRING HARNESS (2P X92-CN5) PIN ASSY (6P)		
75	2E	*	F19-1061-04	COVER		

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NO.10

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86 88 89 90 91	3E 2F,3F 2C 2C 2D	*	G01-3785-04 G01-3805-04 G10-0146-04 G10-0421-04 G13-0514-04	TORSION COIL SPRING EXTENSION SPRING NON-WOVEN FABRIC NON-WOVEN FABRIC CUSHION		
92 93	1E 1E	*	G16-0861-14 G16-0868-04	RUBBER SHEET RUBBER SHEET		
96 97 99 100 102	2E 2F 2D 1D 3E	*	J11-0803-03 J19-0306-05 J19-3761-03 J19-3762-02 J19-3764-11	CLAMPER LEAD HOLDER HOLDER (SHAFT) HOLDER (GIDE) HOLDER ASSY (DISC 1-50)		
102 103 104 105 106	3E 3E 3E 2C 3E	*	J19-3794-11 J19-3765-01 J19-3767-03 J19-3778-04 J21-6247-05	HOLDER ASSY (DISC 51-100) HOLDER (STOCKER) HOLDER HOLDER ASSY (LED) RAIL		
107 112 113 114 115	2D 1D 1D 2E 2E	*	J21-6248-05 J90-0822-03 J90-0823-03 J90-0824-03 J90-0825-13	RAIL RAIL GUIDE (LEVER) STOPPER STOPPER		
116	2D	*	J90-0839-04 J61-0307-05	GUIDE (SHAFT) WIRE BAND		
120	3E	*	K29-6144-03	KNOB (PUSH)		
AD AE E F R	3E 2E 1A,1B 3E 2F	*	N19-0543-04 N29-0067-05 N19-1105-04 N09-3166-05 N09-2650-05	FLAT WASHER PUSH RIVET (3.5X4.5) FLAT WASHER STEPPED SCREW (M3X6) MACHINE SCREW (BLACK M3X3.5)		
V X Y Z	2C 2E 2B,2D 2D,2E	*	N09-3188-05 N09-3031-05 N09-2817-05 N09-2769-05	MACHINE WITH WASHER (M2.6X3) MACHINE (POWER LOCK M2X2.5) P-TITE WITH WASHER (M2.6X10) P-TITE MACHINE SCREW (M2.6X8)		
125 126	2C,2D 3B	*	S33-1022-05 S74-0038-08	LEVER SWITCH LEAF SWITCH		
130 131 FM LM PU	1E 1E 3B 2D 2A	*	T50-1070-04 T99-0565-05 T42-0817-08 T42-0803-05 T25-0041-05	YOKE MAGNET MOTOR ASSY DC MOTOR (LOADING) OPTICAL PICKUP HEAD		
SM	2E	*	T42-0802-05	DC MOTOR (SELECT)		

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